

***NEVADA CAREER AND  
TECHNICAL EDUCATION  
COURSE CATALOG  
SCHOOL YEAR 2012-2013  
VERSION 2***



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State Board for Career and Technical Education on  
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**CTE MISSION STATEMENT:**

The Office of Career, Technical and Adult Education is dedicated to developing innovative educational opportunities for students to acquire skills for productive employment and lifelong learning.

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## INTRODUCTION

### PURPOSE

The purpose of the Statewide Course Catalog for Career and Technical Education is to provide a resource that consolidates all CTE secondary education courses in Nevada. This catalog shall be used as the sole resource for school districts to determine courses and course sequences for all high schools. This catalog is considered a dynamic resource where new courses may be added through the application process approved by the Department of Education to ensure the following thresholds are met:

- The CTE course and course sequence teaches the knowledge and skills required by industry through applied learning methodology and, where appropriate, work-based learning experiences that prepare students for careers in high-wage, high-skill and/or high-demand fields. Some courses also provide instruction focused on personal development.
- The CTE course and course sequence includes leadership and employability skills as an integral part of the curriculum.
- The CTE course and course sequence are part of a rigorous program of study and include sufficient technical challenge to meet state and/or industry-standards.

The Catalog is organized according to the six program areas (1) Agriculture and Natural Resources; (2) Business and Marketing Education; (3) Family and Consumer Sciences; (4) Health Sciences and Public Safety; (5) Information and Media Technologies; and (6) Skilled and Technical Sciences. Each program area is further organized according to career cluster.

### COURSE LISTINGS

The course listings are organized within each program areas career cluster alphabetically and include the following elements: (1) Course Title; (2) Abbreviated Name; (3) Credits; (4) Course Level; (5) Classification of Instructional Program Code (CIP Code); (6) Prerequisites; (7) Course Description. An example for Business Management is shown below.

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Management</b>	<b>BUS MGMT</b>	<b>1</b>	<b>L2</b>	<b>52.0201</b>
<i>Prerequisite: Principles of Business and Marketing</i> This course is a continuation of the Business Management program. The course addresses several types of management, including customer relationship management, human resources management, information management, knowledge management, project management, quality management, risk management, and strategic management. Economics, finance, operations, and professional development are also emphasized throughout the course. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

The **course titles, abbreviated names, levels, and CIP codes** are to be used locally exactly as written in this catalog. This is especially important since it is those titles, abbreviations, levels, and CIP codes that will populate the state data system through SAIN (Student Accountability in Nevada). Through consistent and accurate use of the titles, abbreviated names, levels, and CIP codes, the CTE data reporting will be equally consistent and accurate. Furthermore, the data system will not accept course names, abbreviations, levels, and CIP codes that are inconsistent with those in this catalog.

CTE is largely defined by courses that meet the description above and are one (1) **credit** in length. Exceptions to courses being one credit are permitted for those courses following national program curriculum designs, such as those required by the National Academy Foundation, among others.

The **course level** determines the order in which courses shall be taught. In a designated sequence, for example, a level 2 course (L2) is taught after the level 1 course (L1) in the same sequence. Additional codes for course levels include “C” for completion level and “L” for Lab. For example, the course level L3C represents a course that is the third course in a sequence and the completion course at which an end-of-program technical assessment may be administered. The course level L2L means a second course in a sequence that is a lab course. Lab courses are generally taught in a career and technical academy where students complete two (2) credits in one academic year and up to seven (7) credits in a CTE program of study. A lab course requires concurrent enrollment in a course at the same level; therefore, students in lab courses earn two (2) credits in one academic year. Additional information is provided in appendix A.

The course level designated by “AS” is for Advanced Studies. These courses enable students to continue taking courses beyond the assessment (completion) level. The advanced studies courses are repeatable, which allows students to further develop their skills through investigation and in-depth research and advanced projects.

One additional course level is designated by “WK” for Work Experience. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction.

Lastly, a **course description** is provided for each course. The descriptions are fairly general and are intended to be used by school districts and schools for the printing of annual catalogs, etc. Content may certainly be added to the descriptions provided in this catalog to better assist students, counselors, parents and community members to fully understand the courses offered at the local level.

### **CAREER AND TECHNICAL STUDENT ORGANIZATIONS (CTSOS)**

To further the development of leadership and technical skills, students have opportunities to participate in one or more Career and Technical Student Organizations (CTSOS). CTSOs develop character, citizenship, and the technical, leadership and teamwork skills essential for the workforce and their further education. Their activities are considered a part of the instructional day when they are directly related to the competencies and objectives in the course. The six approved CTSOs and their program area alignment are shown below:

- Agriculture and Natural Resources: FFA
- Business and Marketing Education: FBLA (Future Business Leaders of America) and DECA
- Family and Consumer Sciences: FCCLA (Family, Career, and Community Leaders of America)
- Health Sciences and Public Safety: HOSA: Future Health Professionals
- Information and Media Technologies: SkillsUSA and FBLA
- Skilled and Technical Sciences: SkillsUSA

### **UPDATES AND REVISIONS**

The CTE Course Catalog will be updated and presented to the State Board of Education/State Board for Career and Technical Education on an annual basis. Courses and course sequences may be added to this catalog only through the application process approved by the Department of Education.



## AGRICULTURE, FOOD & NATURAL RESOURCES

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Agriculture Business</b>	<b>AG BUSINESS</b>	<b>1</b>	<b>L3C</b>	<b>01.0102</b>
<p><i>Prerequisite: Agriculture Science II</i></p> <p>This course is a continuation of Agriculture Science II. This course provides advanced agriculture students with the information and skills necessary for success in agribusiness and in operating entrepreneurial ventures in the agricultural industry. These courses may cover topics such as economic principles, budgeting, risk management, finance, business law, marketing and promotion strategies, insurance, and resource management. Other possible topics include developing a business plan, employee/employer relations, problem-solving and decision making, commodities, and building leadership skills. These courses may also incorporate a survey of the careers within the agricultural industry. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Agriculture Business Advanced Studies</b>	<b>AG BUSINESS AS</b>	<b>1</b>	<b>AS</b>	<b>01.0102</b>
<p><i>Prerequisite: Agriculture Business</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Agriculture Leadership, Communication and Policy</b>	<b>AG LEADERSHIP</b>	<b>1</b>	<b>L3C</b>	<b>01.0899</b>
<p><i>Prerequisite: Agriculture Science II</i></p> <p>This course is a continuation of Agriculture Science II. This course provides advanced agriculture students with instruction on leadership skills with a focus on opportunities in the agriculture industries. Topics may include but are not limited to human relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Agriculture LCP Advanced Studies</b>	<b>AG LEADERSHIP AS</b>	<b>1</b>	<b>AS</b>	<b>01.0899</b>
<p><i>Prerequisite: Agriculture Leadership, Communication and Policy</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Agriculture Mechanical Engineering Technology I</b>	<b>AG MET I</b>	<b>1</b>	<b>L1</b>	<b>01.0201</b>
<p><i>Prerequisite: None</i></p> <p>This course will introduce students into the foundation skills necessary for agriculture mechanics and industry employment. Areas of study may include general shop safety, basic welding, electrical applications, water management, agricultural drafting and construction, engines and power, and machinery maintenance and repair. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Agriculture Mechanical Engineering Technology II</b>	<b>AG MET II</b>	<b>1</b>	<b>L2</b>	<b>01.0201</b>
<p><i>Prerequisite: Agriculture Mechanical Engineering Technology I</i></p> <p>This course is a continuation of Agriculture Mechanical Engineering Technology I. It allows intermediate agriculture students to expand on skills and knowledge from Agriculture Mechanical Engineering Technology I. Areas of study may include general shop safety, basic welding, electrical applications, water management, agricultural drafting and construction, engines and power, and machinery maintenance and repair. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>AG MET Equipment Fabrication Systems</b>	<b>AG MET EQUIP FAB</b>	<b>1</b>	<b>L3C</b>	<b>01.0201</b>
<p><i>Prerequisite: Agriculture Mechanical Engineering Technology II</i></p> <p>This course is a continuation of Agriculture Mechanical Engineering Technology II. This course provides advanced agriculture students with instructions in advanced techniques and processes such as GMAW, GTAW, air arc and plasma cutting, with an emphasis in equipment fabrication. An internship may be incorporated into the course to assist students in making a transition from school to work. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>AG MET Power Systems</b>	<b>AG MET POWER SYS</b>	<b>1</b>	<b>L3C</b>	<b>01.0201</b>
<p><i>Prerequisite: Agriculture Mechanical Engineering Technology II</i></p> <p>This course is a continuation of Agriculture Mechanical Engineering Technology II. This course provides advanced agriculture students with instruction in advanced techniques and processes with an emphasis in power systems. An internship may be incorporated into the course of study to assist students in making a transition from school to work. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>AG MET Structural Systems</b>	<b>AG MET STRUCTURE</b>	<b>1</b>	<b>L3C</b>	<b>01.0201</b>
<p><i>Prerequisite: Agriculture Mechanical Engineering Technology II</i></p> <p>This course is a continuation of Agriculture Mechanical Engineering Technology II. This course provides advanced agriculture students with instructions in advanced techniques and processes with an emphasis in structural systems. An internship may be incorporated into the course to assist students in making a transition from school to work. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>AG MET Advanced Studies</b>	<b>AG MET AS</b>	<b>1</b>	<b>AS</b>	<b>01.0201</b>
<p><i>Prerequisite: AG MET Equipment Fabrication Systems or AG MET Power Systems or AG MET Structural Systems</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Agriculture Science I</b>	<b>AG SCIENCE I</b>	<b>1</b>	<b>L1</b>	<b>01.0000</b>
<i>Prerequisite: None</i> This course is an introduction and survey course of the many career areas in agriculture. Topics include basic animal science and veterinary medicine, basic plant science, floriculture and horticulture, natural resource management and wildlife, business management, leadership and career skills. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Agriculture Science II</b>	<b>AG SCIENCE II</b>	<b>1</b>	<b>L2</b>	<b>01.0000</b>
<i>Prerequisite: Agriculture Science I</i> This course is a continuation of Agriculture Science I. This course allows intermediate students to expand on skills and knowledge from Agriculture Science I. Areas of study include plant and soil sciences, agriculture business, animal sciences and natural resource management. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Animal Science</b>	<b>ANIMAL SCIENCE</b>	<b>1</b>	<b>L3C</b>	<b>01.0901</b>
<i>Prerequisite: Agriculture Science II</i> This course is a continuation of Agriculture Science II. This course allows advanced students to expand on skills and knowledge from Agriculture Science II. This course covers the basic anatomy and physiology of domestic animals such as beef cattle, dairy cattle, sheep, goats, swine, rabbits and poultry. Students will develop knowledge and skills related to the care and management of domestic animals. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Animal Science Advanced Studies</b>	<b>ANIMAL SCIENCE AS</b>	<b>1</b>	<b>AS</b>	<b>01.0901</b>
<i>Prerequisite: Animal Science</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Environmental Management I</b>	<b>ENVIRON MGMT I</b>	<b>1</b>	<b>L1</b>	<b>03.0101</b>
<i>Prerequisite: None</i> This course is an introduction to environmental management. Areas of study include renewable and non-renewable natural resources, history of the environment, personal development, water and air quality, waste management, land use regulations, soils, meteorology, fisheries, forestry, and wildlife habitat. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Environmental Management II</b>	<b>ENVIRON MGMT II</b>	<b>1</b>	<b>L2</b>	<b>03.0101</b>
<i>Prerequisite: Environmental Management I</i> This course is a continuation of Environmental Management I. This course will provide intermediate students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Environmental Management I. Areas of study include the basic concepts of ecology and their application to topics of overpopulation; pollution of the soil, air, and water; and conservation of natural resources. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Environmental Management II LAB</b>	<b>ENVIRON MGMT II L</b>	<b>1</b>	<b>L2L</b>	<b>03.0101</b>
<i>Prerequisite: Concurrent enrollment in Environmental Management II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Environmental Management III</b>	<b>ENVIRON MGMT III</b>	<b>1</b>	<b>L3C</b>	<b>03.0101</b>
<i>Prerequisite: Environmental Management II</i> This course is a continuation of Environmental Management II. This course will provide advanced students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Environmental Management I and II. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Environmental Management III LAB</b>	<b>ENVIRON MGMT III L</b>	<b>1</b>	<b>L3L</b>	<b>03.0101</b>
<i>Prerequisite: Concurrent enrollment in Environmental Management III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Environmental Management Advanced Studies</b>	<b>ENVIRON MGMT AS</b>	<b>1</b>	<b>AS</b>	<b>03.0101</b>
<i>Prerequisite: Environmental Management III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Equine Science</b>	<b>EQUINE SCIENCE</b>	<b>1</b>	<b>L3C</b>	<b>01.0507</b>
<i>Prerequisite: Agriculture Science II</i> This course is a continuation of Agriculture Science II. This course allows advanced agriculture students to focus on the care and management of horses. Animal nutrition, health, behavior, reproduction and breeding, anatomy and physiology, facilities, handling and training, and grooming are typical areas of study. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Equine Science Advanced Studies</b>	<b>EQUINE SCIENCE AS</b>	<b>1</b>	<b>AS</b>	<b>01.0507</b>
<i>Prerequisite: Equine Science</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Floriculture</b>	<b>FLORICULTURE</b>	<b>1</b>	<b>L3C</b>	<b>01.0608</b>
<p><i>Prerequisite: Ornamental Horticulture</i></p> <p>This course is a continuation of Ornamental Horticulture. This course is the study of the science, business and design principles of floriculture. Areas of study include the history of floral design, the anatomy and physiology of plants and flowers, plant diseases and pests, taxonomy, floral arrangements, record keeping and floral business management. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Floriculture Advanced Studies</b>	<b>FLORICULTURE AS</b>	<b>1</b>	<b>AS</b>	<b>01.0608</b>
<p><i>Prerequisite: Floriculture</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Greenhouse Management</b>	<b>GREENHOUSE MGMT</b>	<b>1</b>	<b>L3C</b>	<b>01.0604</b>
<p><i>Prerequisite: Ornamental Horticulture</i></p> <p>This course is a continuation of Ornamental Horticulture. This course provides advanced agriculture students a technical understanding and working knowledge of the greenhouse industry. Topics include hydroponics, tissue culturing and genetics. Students will gain knowledge and skills related to the care and management of farms, gardens, and greenhouses. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Greenhouse Management Advanced Studies</b>	<b>GREENHOUSE MGMT AS</b>	<b>1</b>	<b>AS</b>	<b>01.0604</b>
<p><i>Prerequisite: Greenhouse Management</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Horticulture Science</b>	<b>HORTICULTURE SCI</b>	<b>1</b>	<b>L1</b>	<b>01.1103</b>
<p><i>Prerequisite: None</i></p> <p>This course is an introductory course into the many career areas in horticulture. Areas of study include basic plant science, floriculture, horticulture, natural resources, business management, and leadership and career skills. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Landscaping I</b>	<b>LANDSCAPING I</b>	<b>1</b>	<b>L2</b>	<b>01.0605</b>
<p><i>Prerequisite: Agriculture Science I or Horticulture Science</i></p> <p>This course is a continuation of Ag Science I or Horticulture Science I. This course is designed to provide students with instruction in many aspects of landscaping including working with customers, analyzing the landscape site, designing the landscape, selecting plants for the design, pricing the plan, preparing the site for planting, and installing plant materials. The use of technology is an integral part of this course. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Landscaping II</b>	<b>LANDSCAPING II</b>	<b>1</b>	<b>L3C</b>	<b>01.0605</b>
<p><i>Prerequisite: Landscaping I</i></p> <p>This course is a continuation of Landscaping I. This course is designed to provide students with advanced instruction in landscaping including: establishing turf grass, installing patios, decks, walks, fences and walls, and the use of light and water to enhance the landscape. The use of technology is an integral part of this course. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Landscaping Advanced Studies</b>	<b>LANDSCAPING AS</b>	<b>1</b>	<b>AS</b>	<b>01.0605</b>
<p><i>Prerequisite: Landscaping II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Natural Resources and Wildlife Management</b>	<b>NAT RES MGMT</b>	<b>1</b>	<b>L3C</b>	<b>03.0601</b>
<p><i>Prerequisite: Agriculture Science II</i></p> <p>This course is a continuation of Agriculture Science II. This course introduces advanced agriculture students to concepts of soil science, water ecology, soil and water conservation, forestry, mining, fish and wildlife. This course is designed to interest students in the significance of the environment around us and how different ecosystems depend on each other. Students will learn natural resources management techniques. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Natural Resources and Wildlife Management Advanced Studies</b>	<b>NAT RES MGMT AS</b>	<b>1</b>	<b>AS</b>	<b>03.0601</b>
<p><i>Prerequisite: Natural Resources and Wildlife Management</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Plant Science and Ornamental Horticulture</b>	<b>PLANT SCI HORT</b>	<b>1</b>	<b>L2</b>	<b>01.0603</b>
<p><i>Prerequisite: Agriculture Science I or Horticulture Science</i></p> <p>This course is a continuation of Agriculture Science I or Horticulture Science. This course is designed to introduce the intermediate agriculture student to the skills and knowledge needed in order to successfully grow and care for plants used in the home, parks, and near buildings. Other areas emphasized include: plant identification, propagation, turf grass culture, and careers and opportunities in the ornamental horticulture field. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Veterinary Science</b>	<b>VETERINARY SCI</b>	<b>1</b>	<b>L3C</b>	<b>01.0903</b>
<p><i>Prerequisite: Agriculture Science II</i></p> <p>This course is a continuation of Agriculture Science II. This course is designed to introduce advanced agriculture students to the technical understanding and working knowledge of the veterinary medicine industry. Topics to be covered include careers in veterinary medicine, disease control, livestock management, and simple operations. An essential part of this course will be leadership activities and Supervised Agriculture Experience Programs. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Veterinary Science Advanced Studies</b>	<b>VETERINARY SCI AS</b>	<b>1</b>	<b>AS</b>	<b>01.0903</b>
<p><i>Prerequisite: Veterinary Science</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

**WORK EXPERIENCE:**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Work Experience – Agriculture</b>	<b>WORK EXPER AG</b>	<b>1</b>	<b>WK</b>	<b>99.0001</b>
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. Course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

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**BUSINESS, MANAGEMENT & ADMINISTRATION**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Computer Applications</b>	<b>BUS COMP APPS</b>	<b>.5</b>	<b>L1</b>	<b>52.0407</b>
<p><i>Prerequisite: None</i></p> <p>This half-credit course is an entry-level course in the High School of Business™ program and the National Academy Foundation's Academy of Finance (AOF) program. This course prepares students for jobs in an office or business setting. Students will gain necessary knowledge of and proficiency in advanced web functions, word-processing applications, spreadsheet applications, presentation applications and database applications as they are used in a business environment. Students will understand and abide by policies for technology.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Development</b>	<b>BUS DEVELOPMENT</b>	<b>.5</b>	<b>L2</b>	<b>52.0201</b>
<p><i>Prerequisite: Business Computer Applications and Business Leadership</i></p> <p>This half-credit course is a continuation of the High School of Business™ curriculum. This course develops students' understanding and skills in such areas as business law, economics, financial analysis, human resources management, information management, marketing, operations, and strategic management. Through the use of project-based learning, students acquire an understanding and appreciation of the business world. They develop a business analysis report, conduct an environmental scan of the local business community, and investigate business activities. Current technology will be used to acquire information and to complete projects.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Economics</b>	<b>BUS ECONOMICS</b>	<b>.5</b>	<b>L2</b>	<b>52.0601</b>
<p><i>Prerequisite: Business Computer Applications and Business Leadership</i></p> <p>This half-credit course is a continuation of the High School of Business™ curriculum. This project-based business course expands students' understanding that businesses are influenced by external factors that are often beyond their control. Consumer spending, government policies, economic conditions, legal issues, and global competition are addressed through practical, current applications to everyday societal and business life. Decision matrices are introduced, and the importance and costs of quality are stressed. Students develop their knowledge and skills in such areas as economics, entrepreneurship, operations, and professional development.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Finance</b>	<b>BUS FINANCE</b>	<b>.5</b>	<b>L3</b>	<b>52.0305</b>
<p><i>Prerequisite: Business Development and Business Economics</i></p> <p>This half-credit course is a continuation of the High School of Business™ curriculum. This course furthers student understanding of two specific business activities—accounting and finance—that were introduced in an earlier High School of Business™ course (Business Development). Through multiple projects, students make connections between accounting, with an emphasis on cash flow, and finance, with an emphasis on decision-making. Students acquire an understanding of financial statements, calculate financial ratios, and make business decisions based on their interpretation of those financial statements and ratios. In addition, students determine business-financing options, as well as develop an appreciation for types of financial service providers and financial markets.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Leadership</b>	<b>BUS LEADERSHIP</b>	<b>.5</b>	<b>L1</b>	<b>52.0213</b>
<p><i>Prerequisite: None</i></p> <p>This half-credit course is an entry-level course in the High School of Business™ curriculum. Students will develop skills in areas such as communication, emotional intelligence, operations, and professional development. Students acquire an understanding and appreciation of the need for leadership skills through projects such as the planning, implementation, and evaluation of a service-learning project, problem-solving situations for which they must apply academic and critical-thinking skills and formal reflection. Activities may include those related to career and technical student organizations. They also develop understanding and skills in personal finance, types of investment, the stock market, and stock valuation. Students acquire an understanding and appreciation of the need for personal financial management and investing.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Management I</b>	<b>BUS MGMT I</b>	<b>1</b>	<b>L2</b>	<b>52.0201</b>
<i>Prerequisite: Principles of Business and Marketing</i> This course is a continuation of the Business Management program. The course addresses several types of management, including customer relationship management, human resources management, information management, knowledge management, project management, quality management, risk management, and strategic management. Economics, finance, operations, and professional development are also emphasized throughout the course. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Management II</b>	<b>BUS MGMT II</b>	<b>1</b>	<b>L3C</b>	<b>52.0201</b>
<i>Prerequisite: Business Management I</i> This course is a continuation of the Business Management program and focuses predominantly on financial analysis that supports economic decision-making in business. It includes specialist- and management-level skills such as interpreting financial statements; calculating financial ratios; developing budgets; forecasting sales; and much more. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into business administration and finance programs at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Management Advanced Studies</b>	<b>BUS MGMT AS</b>	<b>1</b>	<b>AS</b>	<b>52.0201</b>
<i>Prerequisite: Business Management II</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Software Applications</b>	<b>BUS SOFT APPS</b>	<b>1</b>	<b>L1</b>	<b>52.0407</b>
<i>Prerequisite: None</i> This course is for entry-level students in Administrative Services. This course prepares students for jobs in an office or business setting with an emphasis in either office management or accounting functions. Students will gain knowledge and proficiency of advanced web functions, word-processing applications, spreadsheet applications, presentation applications and database applications as they are used in a business environment. Student will understand and abide by policies for technology.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Business Strategies</b>	<b>BUS STRATEGIES</b>	<b>.5</b>	<b>L4C</b>	<b>52.0299</b>
<i>Prerequisite: Principles of Marketing and Business Finance</i> This half-credit course serves as the capstone course for the High School of Business™ curriculum. Students employ their decision matrices to finalize marketing, financial, and management plans developed previously, incorporating them into a business plan for a non-profit organization. The non-profit venture is actualized during the course, requiring students to engage in risk assessment, strategic planning, and performance assessment. Upon successful completion of this program, students will be prepared for entry into a Business Administration program at the college level.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Introduction to Business</b>	<b>INTRO BUSINESS</b>	<b>.5</b>	<b>PL1</b>	<b>52.0204</b>
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of business and gives students a chance to explore how the world of business operates. Students will look at the different functions, basic business principles, marketing management, business structure, human resources, and economics.</p> <p><b>Please note:</b> This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Business Management, Administrative Services, or Accounting and Finance State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for these program areas. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Principles of Business and Marketing</b>	<b>PRIN BUS MKTG</b>	<b>1</b>	<b>L1</b>	<b>52.0101</b>
<p><i>Prerequisite: None</i></p> <p>This course is an entry-level course in the Business Management, Entrepreneurship, and Marketing programs that develops student understanding and skill in areas such as business law, communications, customer relations, economics, information management, marketing, and operations. Students acquire knowledge of fundamental business and marketing activities, factors affecting business, develop verbal and written communications skill, and participate in career exploration and planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Office Management I</b>	<b>OFFICE MGMT I</b>	<b>1</b>	<b>L2</b>	<b>52.0204</b>
<p><i>Prerequisite: Business Software Applications</i></p> <p>This course is a continuation of the Administrative Services programs. Students will learn occupational skills in accounting such as recording business transactions, posting journal and ledger entries, and preparing financial statements. Students will be introduced to standard accounting software and expand their knowledge of standard office software. Additionally, an introduction to laws related to business practices, organizational structures and interpersonal office skills will be covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Office Management II</b>	<b>OFFICE MGMT II</b>	<b>1</b>	<b>L3C</b>	<b>52.0204</b>
<p><i>Prerequisite: Office Management I</i></p> <p>This course is a continuation of the Administrative Services program and prepares students for work in an office or business environment. Students will learn and apply advanced skills in office technology and software commonly used in today's work environment. This course also includes the understanding of employment law and supervision. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Office Management Advanced Studies</b>	<b>OFFICE MGMT AS</b>	<b>1</b>	<b>AS</b>	<b>52.0204</b>
<p><i>Prerequisite: Office Management II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Principles of Marketing</b>	<b>PRINCIPLES MKTG</b>	<b>.5</b>	<b>L3</b>	<b>52.1401</b>
<p><i>Prerequisite: Business Development and Business Economics</i></p> <p>This half-credit course is a continuation of the High School of Business™ curriculum. This is a project-based course that develops student understanding and skills in the functional areas of marketing: channel management, marketing-information management, market planning, pricing, product/service management, promotion, and selling. Students acquire an understanding and appreciation of each of the marketing functions and their ethical and legal issues. Decision matrices are employed to aid in market planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Principles of Management</b>	<b>PRINCIPLES MGMT</b>	<b>.5</b>	<b>L3</b>	<b>52.0201</b>
<p><i>Prerequisite: Principles of Marketing and Business Finance</i></p> <p>This half-credit course is a continuation of the High School of Business™ curriculum. This course is a project-based business course that expands student understanding of management. Students acquire an appreciation for aspects of management, such as project management, human resources management, knowledge management, quality management, and risk management. In addition, ethical and legal considerations affecting business activities are stressed, and students develop managerial and supervisory skills through interaction with lower grade-level High School of Business™ students. Decision matrices are employed to aid in management planning.</p>				

## FINANCE

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Accounting and Finance I</b>	<b>ACCT FINANCE I</b>	<b>1</b>	<b>L1</b>	<b>52.0304</b>
<i>Prerequisite: None</i> This course is an introduction to both accounting and finance. This course is an introduction to accounting processes, practices, and concepts as well as an introduction to the world of finance. Topics include debits and credits, career pathways, and a survey of the many industries associated with accounting and finance such as accounting, banking, insurance and investments.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Accounting and Finance II</b>	<b>ACCT FINANCE II</b>	<b>1</b>	<b>L2</b>	<b>52.0304</b>
<i>Prerequisite: Accounting and Finance I</i> This course is a continuation of Accounting and Finance I. Students will learn occupational skills in accounting such as recording business transactions, preparing financial statements, maintaining cash controls and calculating financial ratios. Students will be introduced to standard accounting software and apply generally accepted accounting principles. Topics will also include regulations related to the banking and finance industries, how managers use financial information generated by accounting departments to influence decision-making. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Accounting and Finance III</b>	<b>ACCT FINANCE III</b>	<b>1</b>	<b>L3C</b>	<b>52.0304</b>
<i>Prerequisite: Accounting and Finance II</i> This course is a continuation of Accounting and Finance II. Students will learn advanced occupational skills in accounting and how they relate to reports used by managers and directors. Students will learn the importance of accounting data in making decisions through an understanding of financial reports such as profit and loss statements, cash flow statements and pro forma statements. Ethics and regulations will be a discussed throughout this course. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a business administration program at the college level or entry-level employment.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Accounting and Finance Advanced Studies</b>	<b>ACCT FINANCE AS</b>	<b>1</b>	<b>AS</b>	<b>52.0304</b>
<i>Prerequisite: Accounting and Finance III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Banking and Credit</b>	<b>BANK CREDIT</b>	<b>.5</b>	<b>L3</b>	<b>52.0899</b>
<i>Prerequisite: International Finance and Economics and World Finance</i> This half-credit course is a continuation of the National Academy Foundation's Academy of Finance™ curriculum. This course introduces students to the role of banks in a domestic and global economy. The course explores the history of banking, the major functions of banking in today's financial world, and the ever-changing environment facing today's banks. It examines the Federal Reserve System and how its policies affect the U.S. money supply and the availability of credit. The course focuses on how the U.S. banking system interacts with other nations and the vital function international banking plays in foreign trade and the balance of payments.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Economics and World Finance</b>	<b>ECON WRLD FINANCE</b>	<b>.5</b>	<b>L2</b>	<b>45.0605</b>
<p><i>Prerequisite: Business Computer Applications and Principles of Finance</i></p> <p>This half-credit course is a continuation of the National Academy Foundation's Academy of Finance™ curriculum. Students will gain knowledge of basic economic systems, cost-profit relationships, economic indicators/trends, and international concepts as they relate to doing business internationally. Consumer spending, government policies, economic conditions, legal issues, and global competition are also addressed through a global perspective.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Ethics in Business</b>	<b>ETHICS IN BUS</b>	<b>.5</b>	<b>L3</b>	<b>38.0104</b>
<p><i>Prerequisites: Banking and Credit and Securities and Insurance</i></p> <p>This half-credit course is a continuation of the National Academy Foundation's Academy of Finance™ curriculum. This course introduces the importance of ethics in business. Students focus on the significance of ethics to stakeholders; examine who bears responsibility for monitoring ethics; and explore ethical situations common in organizations. Students examine how ethics affects various business disciplines and consider the impact of organizational culture. Students also explore ethics as social responsibility, the evolution of ethics in international business, and how the free market and ethics can coexist. Upon successful completion of this program, students will be prepared for entry into a business administration or finance program at the college level.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Financial Planning</b>	<b>FINANCIAL PLANNING</b>	<b>1</b>	<b>L4C</b>	<b>52.0804</b>
<p><i>Prerequisite: Issues in Management and Ethics in Business</i></p> <p>This course serves as the capstone course for the National Academy Foundation's Academy of Finance™ curriculum. Financial Planning provides students with an overview of the job of a financial planner. Students learn to consider how all aspects of financial planning might affect a potential client, and learn about the importance of financial planning in helping people reach their life goals. This course includes lessons on saving, borrowing, credit, and all types of insurance, and covers various types of investments. Students also examine careers in financial planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>International Finance</b>	<b>INTL FINANCE</b>	<b>.5</b>	<b>L2</b>	<b>52.0806</b>
<p><i>Prerequisite: Business Computer Applications and Principles of Finance</i></p> <p>This half-credit course is a continuation of the National Academy Foundation's Academy of Finance™ curriculum. Students will be introduced to financial principles, with an emphasis on cash flow, finance, and decision-making as it relates to international markets. Students acquire an understanding of financial statements, calculate financial ratios, and make business decisions based on their interpretation of those financial statements and ratios. In addition, students determine business-financing options, as well as develop an appreciation for types of financial service providers and international financial markets.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Issues in Management</b>	<b>ISSUES IN MGMT</b>	<b>.5</b>	<b>L3</b>	<b>52.0201</b>
<p><i>Prerequisite: Banking and Credit and Securities and Insurance</i></p> <p>This half-credit course is a continuation of the National Academy Foundation's Academy of Finance™ curriculum. The course addresses several types of management, including customer relationship management, human resources management, information management, knowledge management, project management, quality management, risk management, and strategic management. Economics, finance, operations, and professional development are also stressed throughout the course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Personal Finance</b>	<b>PERSONAL FINANCE</b>	<b>.5</b>	<b>PL1</b>	<b>52.0809</b>
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of policies and processes contributing to successful individual and family resource management. This course will focus on setting financial goals, making sound financial decisions, managing a checking account, working with a bank, controlling spending, developing a savings plan, using credit to build wealth, and understanding debt.</p> <p><b>Please note:</b> This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Business Management, Administrative Services, Accounting and Finance, or Marketing State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for these program areas. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Principles of Finance</b>	<b>PRIN FINANCE</b>	<b>.5</b>	<b>L1</b>	<b>52.0801</b>
<p><i>Prerequisite: None</i></p> <p>This half-credit course is an entry-level course of the National Academy Foundation's Academy of Finance™ curriculum. This course introduces students to the financial world. Students develop financial literacy as they learn about the function of finance in society. They study income and wealth, examine financial institutions, learn how businesses raise capital, and study key investment-related terms and concepts. They also research how innovations have changed the financial services field. Finally, students explore careers that exist in finance today.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Securities and Insurance</b>	<b>SECURITIES INSURNC</b>	<b>.5</b>	<b>L3</b>	<b>52.0807</b>
<p><i>Prerequisite: International Finance and Economics and World Finance</i></p> <p>This half-credit course is a continuation of the National Academy Foundation's Academy of Finance™ curriculum. Students gain knowledge in the insurance and securities industries and their critical role in the financial services sector and society. It covers common types of insurance, including life, health and disability, property, liability, and forms of commercial insurance. Students examine the business model underlying the industry and how underwriting, actuarial science, and investment practices affect an insurance company's financial success. Finally, they explore career opportunities, including broker, underwriter, actuary, and claims adjuster.</p>				

**MARKETING, SALES & SERVICE**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Entrepreneurship I</b>	<b>ENTREPRENEUR I</b>	<b>1</b>	<b>L2</b>	<b>52.0701</b>
<p><i>Prerequisite: Principles of Business and Marketing</i></p> <p>This course is a continuation of the Entrepreneurship program. Students will gain knowledge in the nature and scope of entrepreneurship, the impact of entrepreneurship on market economies, marketing functions and economic concepts related to entrepreneurship. Personal traits and behaviors of a successful entrepreneur are also examined. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Entrepreneurship II</b>	<b>ENTREPRENEUR II</b>	<b>1</b>	<b>L3C</b>	<b>52.0701</b>
<p><i>Prerequisite: Entrepreneurship I</i></p> <p>This course is a continuation of the Entrepreneurship program. Students will expand their knowledge of the nature and scope of entrepreneurship, the impact of entrepreneurship on market economies, marketing functions and economic concepts related to entrepreneurship. Business plan development is the key tool by which students will learn concepts. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared to enter a business administration program at the college level.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Entrepreneurship Advanced Studies</b>	<b>ENTREPRENEUR AS</b>	<b>1</b>	<b>AS</b>	<b>52.0701</b>
<p><i>Prerequisite: Entrepreneurship II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Marketing I</b>	<b>MARKETING I</b>	<b>1</b>	<b>L2</b>	<b>52.1401</b>
<p><i>Prerequisite: Principles of Business and Marketing</i></p> <p>This course is a continuation of the Marketing and Entrepreneurship programs. Students will learn and practice skills in the functional areas of marketing: channel management, marketing-information management, market planning, market research, pricing, promotion, product management and professional selling. Ethical and legal issues of these functions will be covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Marketing II</b>	<b>MARKETING II</b>	<b>1</b>	<b>L3C</b>	<b>52.1401</b>
<p><i>Prerequisite: Marketing I</i></p> <p>This course is a continuation of the Marketing and Entrepreneurship programs. Students will learn and practice skills in the functional areas of marketing: channel management, marketing-information management, market planning, market research, pricing, promotion, product management and professional selling. Ethical and legal issues of these functions will be covered. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into Business Administration and Marketing programs at the college level.</p>				



COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Marketing Advanced Studies</b>	<b>MARKETING AS</b>	<b>1</b>	<b>AS</b>	<b>52.1401</b>
<p><i>Prerequisite: Marketing II or Sports and Entertainment Marketing</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Sports and Entertainment Business</b>	<b>SPORTS ENTER BUS</b>	<b>1</b>	<b>L1</b>	<b>52.1999</b>
<p><i>Prerequisite: None</i></p> <p>This course is an entry-level course in the Sports and Entertainment Marketing programs that develops student understanding and skill in areas such as business law, communications, customer relations, economics, information management, marketing, and operations. Students acquire knowledge of fundamental business and marketing activities, factors affecting business, develop verbal and written communications skill, and participate in career exploration and planning.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Sports and Entertainment Marketing</b>	<b>SPORTS ENTER MKTG</b>	<b>1</b>	<b>L3C</b>	<b>52.1999</b>
<p><i>Prerequisite: Marketing I</i></p> <p>This course is a continuation of a Sports and Entertainment Marketing program. Students will advance their knowledge and skills in promotion, pricing, channel management, marketing-information management, market planning, market research, promotion, product management and professional selling as it relates to sports and entertainment. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared to enter into Business Administration or Marketing programs at the college level.</p>				

## HOSPITALITY & TOURISM

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Economics for Hospitality and Tourism</b>	<b>ECON HOSPLTY</b>	<b>1</b>	<b>L3</b>	<b>52.0999</b>
<i>Prerequisite: Marketing for Hospitality and Tourism</i> This course is a continuation of the National Academy Foundation's Academy of Hospitality and Tourism™ curriculum. Students will gain knowledge in understanding basic economic systems, cost-profit relationships, economic indicators/trends, and international concepts as they relate to the hospitality and tourism industries. Consumer spending, government policies, economic conditions, legal issues, are addressed through practical, current applications to everyday societal and business life.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Entrepreneurship for Hospitality</b>	<b>ENTREP HOSPLTY</b>	<b>1</b>	<b>L3</b>	<b>52.0799</b>
<i>Prerequisites: Economics for Hospitality and Tourism</i> This course is a continuation of the National Academy Foundation's Academy of Hospitality and Tourism™ curriculum. Students will gain knowledge of the nature and scope of entrepreneurship, the impact of entrepreneurship on market economies, marketing functions and economic concepts related to entrepreneurship. Business plan development is the key tool by which students will learn concepts. Upon successful completion of this program, students will have acquired entry-level skills for employment in the hospitality industry and prepare them for entry into a hospitality program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Event Planning</b>	<b>EVENT PLANNING</b>	<b>.5</b>	<b>L4C</b>	<b>52.0907</b>
<i>Prerequisites: Economics for Hospitality and Tourism</i> This half-credit course serves as the capstone course for the National Academy Foundation's Academy of Hospitality and Tourism™ curriculum. Students will learn and practice all aspects of planning events including venue selection, budget development and management, registration management, and logistics. Upon successful completion of this program, students will have acquired entry-level skills for employment in this field or entry into a college level hospitality program.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Foundations of Hospitality</b>	<b>FOUN HOSPLTY</b>	<b>1</b>	<b>L1</b>	<b>52.0901</b>
<i>Prerequisite: None</i> This course is an introduction and survey course of the many career areas in the hospitality field. Students will learn the roles of jobs in both the "front of the house" and "back of the house" for food and beverage service and hotel operations. Travel and tourism and event sales and services will also be introduced.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Hospitality Management I</b>	<b>HOSPLTY MGMT I</b>	<b>1</b>	<b>L2</b>	<b>52.0904</b>
<i>Prerequisite: Travel and Tourism</i> This course is a continuation of the Hospitality Management program. This course is designed to align with the American Lodging Association's curriculum, teaching students all aspects of hotel operations including reservation systems, rooms division, customer service, food and beverage division, and staff division. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Hospitality Management I LAB</b>	<b>HOSPLTY MGMT I L</b>	<b>1</b>	<b>L2L</b>	<b>52.0904</b>
<i>Prerequisite: Concurrent enrollment in Hospitality Management I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Hospitality Management II</b>	<b>HOSPLTY MGMT II</b>	<b>1</b>	<b>L3C</b>	<b>52.0904</b>
<i>Prerequisite: Hospitality Management I</i> This course is a continuation of Hospitality Management I. This course is designed to align with the American Lodging Association's curriculum, teaching students all aspects of hotel operations including reservation systems, rooms division, food and beverage division and staff division. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of the program, students may be prepared for industry certification through the American Lodging Association and will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Hospitality Management II LAB</b>	<b>HOSPLTY MGMT II L</b>	<b>1</b>	<b>L3L</b>	<b>52.0904</b>
<i>Prerequisite: Concurrent enrollment in Hospitality Management II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Hospitality and Tourism Advanced Studies</b>	<b>HOSPLTY TOUR AS</b>	<b>1</b>	<b>AS</b>	<b>52.0904</b>
<i>Prerequisite: Hospitality Management II</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Marketing for Hospitality and Tourism</b>	<b>MKTG HOSPLTY</b>	<b>1</b>	<b>L2</b>	<b>52.1910</b>
<i>Prerequisite: Principles of Hospitality and Tourism</i> This course is a continuation of the National Academy Foundation's Academy of Hospitality and Tourism™ curriculum. Students will learn the objectives, strategies, and tools that are important to marketing in the hospitality industry, expanding on topics introduced in Principles of Hospitality and Tourism. Students learn about each phase of marketing and the wide range of options that all marketing managers and business owners consider as they create, or revise, marketing plans. Students also explore career opportunities in the field of hospitality marketing.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Principles of Hospitality and Tourism</b>	<b>PRIN HOSPLTY</b>	<b>1</b>	<b>L1</b>	<b>52.0901</b>
<i>Prerequisite: None</i> This course is the entry-level course in the National Academy Foundation's Academy of Hospitality and Tourism™ curriculum. This academy helps students chart career paths in one of the world's largest industries, from hotel management to sports, entertainment, and event management, and includes the study of geography, economics, and world cultures. This course provides an overview of the current hospitality and tourism industry. Students learn about the history of the industry, explore traveler motivation and consumer needs, the industry's economic and environmental impacts, domestic and international travel, and sales in tourism. Finally, students explore careers in the hospitality and tourism industry.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Travel and Tourism</b>	<b>TRAVEL TOURISM</b>	<b>1</b>	<b>L1</b>	<b>52.0903</b>
<i>Prerequisite: None</i> This course provides students an overview of the travel and tourism industry and its relationship to the overall hospitality industry. Students will learn concepts of economics, lodging and transportation, wholesale and retail travel services, conventions, sales and marketing, ecotourism, and destination marketing.				

**WORK EXPERIENCE:**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Work Experience – Business and Marketing</b>	<b>WORK EXPER BUSMKTG</b>	<b>1</b>	<b>WK</b>	<b>99.0002</b>
<i>Prerequisite: None</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. Course must follow NAC 389.562, 389.564, 389.566 regulations.				

## ARCHITECTURE & CONSTRUCTION

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Housing and Interior Design I</b>	<b>INT DESIGN I</b>	<b>1</b>	<b>L1</b>	<b>19.0601</b>
<i>Prerequisite: None</i> This course provides students with an introduction to the principles of housing and interior design. This course examines housing and interior decisions that individuals and families make based on their needs, the environment, and technology. Emphasis is placed on selecting goods and services and creating functional and pleasing living environments based on sound financial decisions and design principles.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Housing and Interior Design II</b>	<b>INT DESIGN II</b>	<b>1</b>	<b>L2</b>	<b>19.0601</b>
<i>Prerequisite: Housing and Interior Design I</i> This course is a continuation of Housing and Interior Design I. This course prepares intermediate housing and interior design students for opportunities in the residential and non-residential interior design fields. Topics include application of design theory to interior plans and production, selection of materials, and examination of business procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Housing and Interior Design II LAB</b>	<b>INT DESIGN II L</b>	<b>1</b>	<b>L2L</b>	<b>19.0601</b>
<i>Prerequisite: Concurrent enrollment in Housing and Interior Design II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Housing and Interior Design III</b>	<b>INT DESIGN III</b>	<b>1</b>	<b>L3C</b>	<b>19.0601</b>
<i>Prerequisite: Housing and Interior Design II</i> This course is a continuation of Housing and Interior Design II. This course provides advanced housing and interior design students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Housing and Interior Design I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Housing and Interior Design III LAB</b>	<b>INT DESIGN III L</b>	<b>1</b>	<b>L3L</b>	<b>19.0601</b>
<i>Prerequisite: Concurrent enrollment in Housing and Interior Design III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Housing and Interior Design Advanced Studies</b>	<b>INT DESIGN AS</b>	<b>1</b>	<b>AS</b>	<b>19.0601</b>
<i>Prerequisite: Housing and Interior Design III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

## ARTS, A/V TECHNOLOGY & COMMUNICATION

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Costume Design I</b>	<b>COSTUME DESG I</b>	<b>1</b>	<b>L1</b>	<b>19.0999</b>
<i>Prerequisite: None</i> This course is designed to provide students with fundamentals of costume design. Areas of study will familiarize students with many aspects of costume design history, drawing, and construction. Classwork focuses on costume design and costume construction.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Costume Design II</b>	<b>COSTUME DESG II</b>	<b>1</b>	<b>L2</b>	<b>19.0999</b>
<i>Prerequisite: Costume Design I</i> This course is a continuation of Costume Design I. This course allows intermediate costume design students to develop their knowledge and skills learned in Costume Design I. Areas of study will include costume design and rendering, advanced construction techniques including repair and recycling, needs for special roles, and hat making. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Costume Design III</b>	<b>COSTUME DESG III</b>	<b>1</b>	<b>L3C</b>	<b>19.0999</b>
<i>Prerequisite: Costume Design II</i> This course is a continuation of Costume Design II. This course provides advanced costume design students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Costume Design I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Costume Design Advanced Studies</b>	<b>COSTUME DESG AS</b>	<b>1</b>	<b>AS</b>	<b>19.0999</b>
<i>Prerequisite: Costume Design III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Fashion Design and Construction I</b>	<b>FASHION CONST I</b>	<b>1</b>	<b>L1</b>	<b>19.0902</b>
<i>Prerequisite: None</i> This course is designed to provide students with fundamentals of fashion concepts and construction. Areas of emphasis include individual image, consumer decision-making, fabric and pattern selection, construction techniques, the use and care of sewing equipment, clothing repair, and fashion-related occupations.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Fashion Design and Construction II</b>	<b>FASHION CONST II</b>	<b>1</b>	<b>L2</b>	<b>19.0902</b>
<i>Prerequisite: Fashion Design and Construction I</i> This course is a continuation of Fashion Design and Construction I. This course allows intermediate fashion and design students to build on fundamental skills developed in Fashion Design and Construction I. This course will provide more in-depth experiences in understanding of clothing needs in today's society. Areas of study include wardrobe planning and purchasing, handling and care of textiles, and advanced construction techniques. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Fashion Design and Construction III</b>	<b>FASHION CONST III</b>	<b>1</b>	<b>L3C</b>	<b>19.0902</b>
<i>Prerequisite: Fashion Design and Construction II</i> This course is a continuation of Fashion Design and Construction II. This course allows advanced fashion and design students to develop their knowledge and skills attained in Fashion Design and Construction I and II. This course will cover psychological and social aspects of clothing, advanced construction techniques including tailoring, use of specialty fabrics, and creative applications. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Fashion Design and Construction Advanced Studies</b>	<b>FASHION CONST AS</b>	<b>1</b>	<b>AS</b>	<b>19.0902</b>
<i>Prerequisite: Fashion Design and Construction III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Foundations of Design</b>	<b>FOUN DESIGN</b>	<b>1</b>	<b>L1</b>	<b>50.0499</b>
<i>Prerequisite: None</i> This course is designed as the foundation for the Housing and Interior Design and Fashion, Textiles and Design programs. Students are introduced to the elements and principles of design as used in the fields of fashion and interior design.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Pattern Drafting</b>	<b>PATTERN DRAFTING</b>	<b>1</b>	<b>L3</b>	<b>50.0407</b>
<i>Prerequisite: Fashion Design and Construction II</i> This course is designed to provide students with the theory and application of flat pattern drafting and design. Students apply the principles and elements of design to draft patterns and construct garments. Areas of emphasis include sketching, measurements, pattern alterations, and use of industry-standard equipment. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

## HOSPITALITY & TOURISM

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Baking and Pastry I</b>	<b>BAKING I</b>	<b>1</b>	<b>L2</b>	<b>12.0501</b>
<i>Prerequisite: Culinary Arts I</i> This course is an option following Culinary Arts I. This course allows culinary students more in-depth study of baking and pastry arts. Areas of study include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and methods used in creating breads, pastries, cookies, and other desserts. The fundamentals of dough and basic decorating skills are covered. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Baking and Pastry I LAB</b>	<b>BAKING I L</b>	<b>1</b>	<b>L2L</b>	<b>12.0501</b>
<i>Prerequisite: Concurrent enrollment in Baking and Pastry I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Baking and Pastry II</b>	<b>BAKING II</b>	<b>1</b>	<b>L3C</b>	<b>12.0501</b>
<i>Prerequisite: Baking and Pastry I</i> This course is a continuation of Baking and Pastry I. This course provides advanced baking students with instruction in advanced techniques and processes. They will continue to develop skills learned in Culinary Arts I and Baking and Pastry I. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Baking and Pastry II LAB</b>	<b>BAKING II L</b>	<b>1</b>	<b>L3L</b>	<b>12.0501</b>
<i>Prerequisite: Concurrent enrollment in Baking and Pastry II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Baking and Pastry Advanced Studies</b>	<b>BAKING AS</b>	<b>1</b>	<b>AS</b>	<b>12.0501</b>
<i>Prerequisite: Baking and Pastry II</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				



COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Introduction to Culinary Arts</b>	<b>INTRO CUL ART</b>	<b>.5</b>	<b>PL1</b>	<b>12.0503</b>
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of culinary arts. Students acquire basic skills in food handling, food and nutritional science, equipment technology, cooking methods, kitchen safety, and sanitation procedures.</p> <p><b>Please note:</b> This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Culinary Arts State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for this program area. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Culinary Arts I</b>	<b>CULINARY ART I</b>	<b>1</b>	<b>L1</b>	<b>12.0503</b>
<p><i>Prerequisite: None</i></p> <p>This course provides students with an introduction to the principles, chemistry, and techniques of food preparation. The classroom is patterned after industry with emphasis on the standards of food service occupations. Students acquire basic skills in food handling, food and nutritional science, equipment technology, cooking methods, kitchen safety, sanitation procedures, and employability skills.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Culinary Arts I LAB</b>	<b>CULINARY ART I L</b>	<b>1</b>	<b>L1L</b>	<b>12.0503</b>
<p><i>Prerequisite: Concurrent enrollment in Culinary Arts I</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Culinary Arts II</b>	<b>CULINARY ART II</b>	<b>1</b>	<b>L2</b>	<b>12.0503</b>
<p><i>Prerequisite: Culinary Arts I</i></p> <p>This course is a continuation of Culinary Arts I. This course allows intermediate culinary students to build on fundamental skills developed in Culinary Arts I. Students will receive practical training in areas of food preparation, equipment use, merchandising, and service. Students are rotated through various culinary classifications. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Culinary Arts II LAB</b>	<b>CULINARY ART II L</b>	<b>1</b>	<b>L2L</b>	<b>12.0503</b>
<p><i>Prerequisite: Concurrent enrollment in Culinary Arts II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Culinary Arts III</b>	<b>CULINARY ART III</b>	<b>1</b>	<b>L3C</b>	<b>12.0503</b>
<p><i>Prerequisite: Culinary Arts II</i></p> <p>This course is a continuation of Culinary Arts II. This course provides advanced culinary students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Culinary Arts I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Culinary Arts III LAB</b>	<b>CULINARY ART III L</b>	<b>1</b>	<b>L3L</b>	<b>12.0503</b>
<p><i>Prerequisite: Concurrent enrollment in Culinary Arts III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Culinary Arts Advanced Studies</b>	<b>CULINARY ART AS</b>	<b>1</b>	<b>AS</b>	<b>12.0503</b>
<p><i>Prerequisite: Culinary Arts III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

## HUMAN SERVICES

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Child Development I</b>	<b>CHILD DEV I</b>	<b>1</b>	<b>L1</b>	<b>19.0706</b>
<i>Prerequisite: None</i> This course introduces the topic of child development. Areas of study include reproduction, prenatal development, childbirth, and roles and responsibilities of parenthood. Also covered are stages of development in infants, toddlers, and preschoolers.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Child Development I LAB</b>	<b>CHILD DEV I L</b>	<b>1</b>	<b>L1L</b>	<b>19.0706</b>
<i>Prerequisite: Concurrent enrollment in Child Development I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Child Development II</b>	<b>CHILD DEV II</b>	<b>1</b>	<b>L2C</b>	<b>19.0706</b>
<i>Prerequisite: Child Development I</i> This course is a continuation of Child Development I. This course allows intermediate child development students to develop skills to provide proper care, education, and advocacy for children. Areas of study include roles and responsibilities of parenthood from birth to school-age children. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Child Development II LAB</b>	<b>CHILD DEV II L</b>	<b>1</b>	<b>L2L</b>	<b>19.0706</b>
<i>Prerequisite: Concurrent enrollment in Child Development II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Early Childhood Education I</b>	<b>EARLY CHILD I</b>	<b>1</b>	<b>L1</b>	<b>13.1210</b>
<i>Prerequisite: None</i> This course provides students with an introduction to the principles of early childhood education. This course addresses child development, care, and education issues, so that students can guide the development of young children in an educational setting. Study typically includes planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements for teaching young children.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Early Childhood Education I LAB</b>	<b>EARLY CHILD I L</b>	<b>1</b>	<b>L1L</b>	<b>13.1210</b>
<i>Prerequisite: Concurrent enrollment in Early Childhood Education I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Early Childhood Education II</b>	<b>EARLY CHILD II</b>	<b>1</b>	<b>L2</b>	<b>13.1210</b>
<i>Prerequisite: Early Childhood Education I</i> This course is a continuation of Early Childhood Education I. This course prepares intermediate early childhood education students to guide the development of young children in an educational setting through classroom and job shadowing experiences. Course content includes child development, care, and education issues. Project-based learning experiences include planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements of teaching young children. Students will research the requirements of early childhood education careers and develop/expand their career portfolio. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Early Childhood Education II LAB</b>	<b>EARLY CHILD II L</b>	<b>1</b>	<b>L2L</b>	<b>13.1210</b>
<i>Prerequisite: Concurrent enrollment in Early Childhood Education II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Early Childhood Education III</b>	<b>EARLY CHILD III</b>	<b>1</b>	<b>L3C</b>	<b>13.1210</b>
<i>Prerequisite: Early Childhood Education II</i> This course is a continuation of Early Childhood Education II. This course provides advanced early childhood education students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Early Childhood Education I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Early Childhood Education III LAB</b>	<b>EARLY CHILD III L</b>	<b>1</b>	<b>L3L</b>	<b>13.1210</b>
<i>Prerequisite: Concurrent enrollment in Early Childhood Education III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in this program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Early Childhood Education Advanced Studies</b>	<b>EARLY CHILD AS</b>	<b>1</b>	<b>AS</b>	<b>13.1210</b>
<i>Prerequisite: Early Childhood Education III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Family and Consumer Sciences I</b>	<b>FACS I</b>	<b>1</b>	<b>L1</b>	<b>19.0101</b>
<i>Prerequisite: None</i> This course is designed as a survey of all aspects of family and consumer sciences. It will emphasize the importance of life skills in developing independence. Areas of study include roles and responsibilities, building positive relationships, managing resources, health and wellness, clothing management, and leadership and career development in the context of personal and family life.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Family and Consumer Sciences II</b>	<b>FACS II</b>	<b>1</b>	<b>L2C</b>	<b>19.0101</b>
<i>Prerequisite: Family and Consumer Sciences I</i> This course is a continuation of Family and Consumer Sciences I. This course provides advanced studies in family and consumer sciences topics to prepare students for adult roles and responsibilities. The major focus is on developing skills for balancing home, work, and life by studying how to be successful with life management, wealth management, family development, home management, health and fitness, and leadership and community participation. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Family and Consumer Sciences Advanced Studies</b>	<b>FACS AS</b>	<b>1</b>	<b>AS</b>	<b>19.0101</b>
<i>Prerequisite: Family and Consumer Sciences II</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Family and Personal Psychology</b>	<b>FAM PERSONAL PSYCH</b>	<b>1</b>	<b>L2</b>	<b>19.0704</b>
<i>Prerequisite: Child Development I</i> This course is a continuation of Child Development I. Students in Family and Personal Psychology will focus on their personality development and how it is influenced by family, friends, the media, and world events. Students will look at their own values and analyze how they will influence important decisions concerning friendships, dating, and marriage. Students will learn techniques for building positive self-esteem, dealing with conflict, and changing behaviors. Students will become familiar with community resources that can help them manage their lives. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Foods and Nutrition I</b>	<b>FOODS I</b>	<b>1</b>	<b>L1</b>	<b>19.0501</b>
<i>Prerequisite: None</i> This course provides an introduction to the study of foods and nutrition. Emphasis is placed on exploring food choices and meal preparation in relation to nutrition, fitness, lifecycle, customs, and cooking methods.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Foods and Nutrition II</b>	<b>FOODS II</b>	<b>1</b>	<b>L2C</b>	<b>19.0501</b>
<i>Prerequisite: Foods and Nutrition I</i> This course is a continuation of Foods and Nutrition I. This course provides intermediate students with more advanced activities to develop their skills in food selection and preparation. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Personal and Family Management I</b>	<b>PERSONAL MGMT I</b>	<b>1</b>	<b>L1</b>	<b>19.0101</b>
<p><i>Prerequisite: None</i></p> <p>This course is designed as a survey of all aspects of family and consumer sciences. It will emphasize the importance of life skills in developing independence. Areas of study include roles and responsibilities, building positive relationships, managing resources, health and wellness, clothing management, and leadership and career development in the context of personal and family life.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Personal and Family Management II</b>	<b>PERSONAL MGMT II</b>	<b>1</b>	<b>L2</b>	<b>19.0101</b>
<p><i>Prerequisite: Personal and Family Management I</i></p> <p>This course is a continuation of Personal and Family Management I. This course provides an introduction to the study of foods and nutrition. Emphasis is placed on exploring food choices and meal preparation in relation to nutrition, fitness, lifecycle, customs, and cooking methods. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Personal and Family Management III</b>	<b>PERSONAL MGMT III</b>	<b>1</b>	<b>L3</b>	<b>19.0101</b>
<p><i>Prerequisite: Personal and Family Management II</i></p> <p>This course is a continuation of Personal and Family Management II. This course introduces the topic of child development. Areas of study include reproduction, prenatal development, childbirth, and roles and responsibilities of parenthood. Also covered are stages of development in infants, toddlers, and preschoolers. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Personal and Family Management IV</b>	<b>PERSONAL MGMT IV</b>	<b>1</b>	<b>L4C</b>	<b>19.0101</b>
<p><i>Prerequisite: Personal and Family Management III</i></p> <p>This course is a continuation of Personal and Family Management III. This course provides advanced studies in family and consumer sciences topics to prepare students for adult roles and responsibilities. The major focus is on developing skills for balancing home, work, and life by studying how to be successful with life management, wealth management, family development, home management, health and fitness, and leadership and community participation. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

**MARKETING, SALES & SERVICE**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Fashion Merchandising I</b>	<b>FASHION MERCH I</b>	<b>1</b>	<b>L1</b>	<b>19.0905</b>
<i>Prerequisite: None</i> This course is designed to provide students with the fundamentals of the fashion merchandising industry. Areas of study include clothing needs, fads, fashion, textiles, styles, design and construction, and fashion promotion.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Fashion Merchandising II</b>	<b>FASHION MERCH II</b>	<b>1</b>	<b>L2C</b>	<b>19.0905</b>
<i>Prerequisite: Fashion Merchandising I</i> This course is a continuation of Fashion Merchandising I. This course provides advanced fashion merchandising students with instruction in advanced techniques and processes. This course allows advanced fashion merchandising students to develop their knowledge and skills attained in Fashion Merchandising I. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Fashion Merchandising Advanced Studies</b>	<b>FASHION MERCH AS</b>	<b>1</b>	<b>AS</b>	<b>19.0905</b>
<i>Prerequisite: Fashion Merchandising II</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

**WORK EXPERIENCE:**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Work Experience – Family and Consumer Sciences</b>	<b>WORK EXPER FACS</b>	<b>1</b>	<b>AS</b>	<b>99.0003</b>
<i>Prerequisite: None</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. Course must follow NAC 389.562, 389.564, 389.566 regulations.				

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**HEALTH SCIENCE**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Biomedical I</b>	<b>BIOMEDICAL I</b>	<b>1</b>	<b>L1</b>	<b>26.0102</b>
<p><i>Prerequisite: None</i></p> <p>This course introduces students to advanced science courses related to medical fields. Areas of investigation will include human body systems, infectious diseases, medical treatment, medical mysteries, and medical interventions. Topics include research processes, bioinformatics, HIPAA and human medicine. Practices incorporate an appreciation of alternative and culturally diverse healthcare contributions by different societies. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Biomedical II</b>	<b>BIOMEDICAL II</b>	<b>1</b>	<b>L2</b>	<b>26.0102</b>
<p><i>Prerequisite: Biomedical I</i></p> <p>This course is a continuation of Biomedical I. This course allows intermediate biomedical students to develop their knowledge and skills learned in Biomedical I. Areas of study will include prevention, diagnosis, treatment, genetics, public health, and biomedical engineering. The students will be introduced to the interactions of the human body and design experiments to investigate the structure and function. Topics include safe practices in a workplace, homeostatic balance, protection, support, and movement. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Biomedical III</b>	<b>BIOMEDICAL III</b>	<b>1</b>	<b>L3C</b>	<b>26.0102</b>
<p><i>Prerequisite: Biomedical II</i></p> <p>This course is a continuation of Biomedical II. This course provides advanced biomedical students with instruction in advanced techniques and processes. The students will be introduced to clinical medicine, physiology and biomedical engineering related to the human species and veterinary practices. Topics include scientific method, ethical considerations, innovative research, emergency room principles, and variety of disorders. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a pre-med program at the college level.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Biomedical Advanced Studies</b>	<b>BIOMEDICAL AS</b>	<b>1</b>	<b>AS</b>	<b>26.0102</b>
<p><i>Prerequisite: Biomedical III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Biomedical Innovation</b>	<b>BIOMED INNOVATIONS</b>	<b>1</b>	<b>L4C</b>	<b>26.0102</b>
<p><i>Prerequisite: Medical Interventions</i></p> <p>This course serves as the capstone course for the Biomedical Project Lead the Way™ curriculum. The students will apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that may include representatives from the local business and healthcare community.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Biotechnology</b>	<b>BIOTECHNOLOGY</b>	<b>1</b>	<b>L3C</b>	<b>51.0802</b>
<i>Prerequisite: Health Science II or Medical Anatomy or Human Diseases or Medical Terminology</i> This course introduces students to advanced science courses related to medical fields. It is a laboratory-intensive course that develops basic and advanced skills needed for work in the field of biotechnology. Topics of study include plant and animal cell culture, preparative histology, and nucleic acid technology. Application of concepts to laboratory procedures will be emphasized. Students will become proficient in the use and care of biomedical laboratory equipment, experimental protocol writing, preparation of solutions, preparation of materials and equipment needed for experimental procedures, data analysis, use of library and research tools, and preparation of formal laboratory reports. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a medical program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Biotechnology LAB</b>	<b>BIOTECHNOLOGY L</b>	<b>1</b>	<b>L3L</b>	<b>51.0802</b>
<i>Prerequisite: Concurrent enrollment in Biotechnology</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Dental Assisting I</b>	<b>DENTAL ASST I</b>	<b>1</b>	<b>L3</b>	<b>51.0601</b>
<i>Prerequisite: Health Science II</i> This introductory course is designed for the student interested in a career in the dental field. It covers all procedures utilized in the dental office during the practice of dentistry. It gives students a vast knowledge base of dental anatomy, dental disease processes and treatment. It develops the dexterity, knowledge and communication skills needed to work as a dental assistant. Emphasis is placed on developing critical-thinking skills, research skills, and necessary techniques. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Dental Assisting I LAB</b>	<b>DENTAL ASST I L</b>	<b>1</b>	<b>L3L</b>	<b>51.0601</b>
<i>Prerequisite: Concurrent enrollment in Dental Assisting I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Dental Assisting II</b>	<b>DENTAL ASST II</b>	<b>1</b>	<b>L4C</b>	<b>51.0601</b>
<i>Prerequisite: Dental Assisting I</i> This course is a continuation of Dental Assisting I. This course allows advanced dental assisting students to develop their knowledge and skills learned in Dental Assisting I. Areas of study will include oral pathology, dental medications, legal and ethical issues, and research skills. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a dental program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Dental Assisting Advanced Studies</b>	<b>DENTAL ASST AS</b>	<b>1</b>	<b>AS</b>	<b>51.0601</b>
<i>Prerequisite: Dental Assisting II</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Dental Materials and Radiology</b>	<b>DENT MAT RADIOLOGY</b>	<b>1</b>	<b>L3</b>	<b>51.0601</b>
<i>Prerequisite: Dental Assisting I</i> This course provides students with the principles of dental materials and radiology. Areas of study include laboratory techniques, research skills, and radiology. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Health Information Management I</b>	<b>HLTH INFO MGMT I</b>	<b>1</b>	<b>L2</b>	<b>51.0707</b>
<i>Prerequisite: Health Science I or Medical Terminology</i> This course is designed to familiarize students with computerized account management and to help students develop confidence and skills necessary to become successful users of Medical Account Management software. Areas of study include understanding the legal aspects of HIPAA and responsibilities of a medical office staff; utilizing a computer program to maintain patient files, store information, match CRT and diagnosis codes with treatment procedures and charges; creating insurance claim forms and following the claim until they are reimbursed and perform related tasks; and creating a professional resume and cover letter appropriate for applying for a medical assistant position in a medical practice. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Health Information Management II</b>	<b>HLTH INFO MGMT II</b>	<b>1</b>	<b>L3C</b>	<b>51.0707</b>
<i>Prerequisite: Health Information Management I</i> This course is a continuation of Health Information Management I. This course allows advanced health information management students to develop their knowledge and skills learned in Health Information Management I. Emphasis will be placed on advanced records management including EMR Software Programs. Reception office skills will cover telephone, scheduling, medical insurance, HIPAA and legal issues. This is an advanced class and will give students necessary practice and experience to work in a medical front office or related field. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Health Occupations I</b>	<b>HEALTH OCC I</b>	<b>1</b>	<b>L1</b>	<b>51.0001</b>
<i>Prerequisite: None</i> This course is designed for the student who is interested in investigating careers in the healthcare field. This class will learn the introductory information about the basic human body, disease transmission, medical skills, emergency preparation, and handling a healthcare setting. It will introduce the many different professions in healthcare and the needed skills required to pursue a career in medicine.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Health Occupations II</b>	<b>HEALTH OCC II</b>	<b>1</b>	<b>L2C</b>	<b>51.0001</b>
<i>Prerequisite: Health Occupations I</i> This course is a continuation of Health Occupations I. This course provides advanced health occupation students with instruction in advanced techniques and processes. This class requires the learning of medical terminology, diseases, the use of medical equipment and the maturity to handle the emotional and physical aspects of being in real medical situations. As part of this course, students will be in the healthcare setting on department tours and job shadowing. Students will become CPR and First Aid certified through this course. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a medical program at the college level.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Health Occupations Advanced Studies</b>	<b>HEALTH OCC AS</b>	<b>1</b>	<b>AS</b>	<b>51.0001</b>
<i>Prerequisite: Health Occupations II</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Health Science I</b>	<b>HEALTH SCIENCE I</b>	<b>1</b>	<b>L1</b>	<b>51.0000</b>
<i>Prerequisite: None</i> This course will introduce students to human structure and function. Areas of study include anatomy, healthcare delivery systems, medical terminology, emergency management, health information technology, and legal practices. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Health Science II</b>	<b>HEALTH SCIENCE II</b>	<b>1</b>	<b>L2</b>	<b>51.0000</b>
<i>Prerequisite: Health Science I</i> This course is a continuation of Health Science I. This course provides advanced health science students with instruction in advanced techniques and processes. Areas of study include medical ethics, hazardous materials, and safety in the workplace, epidemiology, and green practices in healthcare. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a medical program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Health Science Advanced Studies</b>	<b>HEALTH SCIENCE AS</b>	<b>1</b>	<b>AS</b>	<b>51.0000</b>
<i>Prerequisite: Health Science II</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Human Body Systems</b>	<b>HUMAN BODY SYS</b>	<b>1</b>	<b>L2</b>	<b>26.0102</b>
<i>Prerequisite: Principles of Biomedical Sciences</i> This course is a continuation of the Biomedical Project Lead the Way™ curriculum. Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Human Diseases</b>	<b>HUMAN DISEASES</b>	<b>1</b>	<b>L2</b>	<b>51.0999</b>
<i>Prerequisite: Health Science I</i> This course is designed to expose students to information about human diseases, injuries, and conditions of each body system. Students will utilize previously-learned information regarding normal structure and function and assessment to develop an understanding of disease, injury, and condition processes. Case studies will be used to stimulate problem-solving and critical-thinking skills. Additionally, students will study medical asepsis and disease control and wellness and disease prevention.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Medical Anatomy</b>	<b>MEDICAL ANATOMY</b>	<b>1</b>	<b>L2</b>	<b>51.1201</b>
<i>Prerequisite: Health Science I</i> This course is a survey of the fundamentals of anatomy and physiology. This course is designated as honors level by the accelerated pacing and depth of content. Topics focus on the interrelationships of human body systems that include laboratory experiences, demonstrations, and dissections. Problem solving and case study analysis are an integral part of this course. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Medical Assisting</b>	<b>MEDICAL ASST</b>	<b>1</b>	<b>L3C</b>	<b>51.0710</b>
<i>Prerequisite: Health Science II</i> This course provides advanced health science students with the skills required for entry-level positions such as administrative medical assistant or clinical medical assistant. Demonstrations and laboratory experiences are an integral part of this course. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to our society. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a medical program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Medical Assisting LAB</b>	<b>MEDICAL ASST L</b>	<b>1</b>	<b>L3L</b>	<b>51.0710</b>
<i>Prerequisite: Concurrent enrollment in Medical Assisting</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Medical Interventions</b>	<b>MEDICAL INTERVENT</b>	<b>1</b>	<b>L3</b>	<b>26.0102</b>
<i>Prerequisite: Human Body Systems</i> This course is a continuation of the Biomedical Project Lead the Way™ curriculum. Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of interventions of the future.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Medical Terminology</b>	<b>MEDICAL TERM</b>	<b>1</b>	<b>L2</b>	<b>51.9999</b>
<i>Prerequisite: Health Science I</i> This course is designed to introduce students to the vocabulary, knowledge, and skills required for entry into health-related occupations. Students receive instruction in the vocabulary of human anatomy and physiology, basic health care skills, first aid, cardiopulmonary resuscitation (CPR), and healthcare practices. Students' medical, ethical, and legal responsibilities pertaining to future careers in the health field will be integrated into the course. Students will also be introduced to health-related occupational skills required in the world of work.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Nursing Assistant</b>	<b>NURSING ASST</b>	<b>1</b>	<b>L3C</b>	<b>51.3902</b>
<i>Prerequisite: Medical Anatomy or Medical Terminology or Human Diseases</i> This course is designed to provide students with the knowledge and skills required for entry into the healthcare field. Students completing this program, including the clinical practicum, are eligible to apply independently for the Nevada State Board of Nursing Certifying Exam for Nursing Assistants. Due to certification requirements, a student must complete the program in its entirety. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Nursing Assistant LAB</b>	<b>NURSING ASST L</b>	<b>1</b>	<b>L3L</b>	<b>51.3902</b>
<i>Prerequisite: Concurrent enrollment in Nursing Assistant</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Pharmacy Technician</b>	<b>PHARMACY TECH</b>	<b>1</b>	<b>L3C</b>	<b>51.0805</b>
<i>Prerequisite: Medical Anatomy</i> This course provides students with the introduction to the practices and fundamentals of pharmacology. Areas of study include pharmacy, calculations, routes, inventory management, and factors affecting drug activity. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Principles of Biomedical Sciences</b>	<b>PRIN BIOMED SCI</b>	<b>1</b>	<b>L1</b>	<b>26.0102</b>
<i>Prerequisite: None</i> This course is an entry-level course of the Biomedical Project Lead the Way™ curriculum. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Respiratory Therapy I</b>	<b>RESP THERAPY I</b>	<b>1</b>	<b>L3</b>	<b>51.0908</b>
<i>Prerequisite: Health Science II</i> This course provides students with the principles of respiratory therapy. Areas of emphasis include medical terminology, medical math, industry requirements, basic techniques, and procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Respiratory Therapy I LAB</b>	<b>RESP THERAPY I L</b>	<b>1</b>	<b>L3L</b>	<b>51.0908</b>
<i>Prerequisite: Concurrent enrollment in Respiratory Therapy I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Respiratory Therapy II</b>	<b>RESP THERAPY II</b>	<b>1</b>	<b>L4C</b>	<b>51.0908</b>
<i>Prerequisite: Respiratory Therapy I</i> This course is a continuation of Respiratory Therapy I. This course provides advanced respiratory therapy students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Respiratory Therapy I. The appropriate use of technology and industry-standard equipment is an integral part of this course. An internship may be incorporated into the course of study to assist students in making a transition from school to work. Upon successful completion of this program, students will be prepared for entry into a medical program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Respiratory Therapy II LAB</b>	<b>RESP THERAPY II L</b>	<b>1</b>	<b>L4L</b>	<b>51.0908</b>
<i>Prerequisite: Concurrent enrollment in Respiratory Therapy II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Respiratory Therapy Practices</b>	<b>RESP THERAPY PRACT</b>	<b>1</b>	<b>L3</b>	<b>51.0908</b>
<i>Prerequisite: Health Science II</i> This course provides students with practical applications of respiratory therapy. Areas of study include diagnostic procedures, patient assessment, equipment use, rehabilitation, and the principle of gas exchange. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Sports Medicine I</b>	<b>SPORT MEDICINE I</b>	<b>1</b>	<b>L2</b>	<b>51.0913</b>
<i>Prerequisite: Health Science I</i> This course is designed to introduce students to the field of sports medicine. It will provide students the opportunity to explore athletic training and sports medicine related fields. Students will receive instruction in sports medicine terminology, physical fitness, anatomy and physiology, kinesiology, injury evaluation and prevention procedures, and careers in sports medicine. Students will also demonstrate skills in cardiopulmonary resuscitation (CPR), first aid, and sports injury management and rehabilitation. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Sports Medicine II</b>	<b>SPORT MEDICINE II</b>	<b>1</b>	<b>L3C</b>	<b>51.0913</b>
<i>Prerequisite: Sports Medicine I</i> This course is a continuation of Sports Medicine I. This course provides advanced sports medicine students with instruction in advanced techniques and processes. This course will give students hands-on experience evaluating injuries commonly sustained by the competitive athlete. It includes all areas of sports medicine such as sports medicine terminology, musculoskeletal anatomy, evaluation, assessment, rehabilitation, and prevention of athletic injuries. Emphasis will be placed on evaluating and assessing athletic injuries. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a medical program at the college level.				

**LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Criminal Justice I</b>	<b>CRIMINAL JUST I</b>	<b>1</b>	<b>L2</b>	<b>43.0104</b>
<p><i>Prerequisite: Foundations of Public Safety</i></p> <p>This course allows students to develop an understanding of the difference between the civil and criminal codes in the American legal system, with a particular emphasis on criminal and civil cases decided by Nevada courts by Nevada Revised Statutes. Students will explore themes in both civil and criminal law reflecting American social, moral, political and economic values. Students will focus on legal terminology and writing, and courtroom environment. Civil law will give an overview of tort, contract, bankruptcy, and administrative law. Students will focus on criminal law and the various aspects of behavior and actions of citizens, corporations and other associations deemed illegal by state and federal governments.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Criminal Justice II</b>	<b>CRIMINAL JUST II</b>	<b>1</b>	<b>L3C</b>	<b>43.0104</b>
<p><i>Prerequisite: Criminal Justice I</i></p> <p>This course is a continuation of Criminal Justice I. This course allows intermediate criminal justice students to develop their knowledge and skills learned in Criminal Justice I. Areas of study will include civil law, criminal law, legal and ethical issues, forensics toxicology, laboratory technology, and research skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Criminal Justice Advanced Studies</b>	<b>CRIMINAL JUST AS</b>	<b>1</b>	<b>AS</b>	<b>43.0104</b>
<p><i>Prerequisite: Criminal Justice II</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Emergency Medical Services</b>	<b>EMER MED SERVICES</b>	<b>1</b>	<b>L2</b>	<b>51.0810</b>
<p><i>Prerequisite: Health Science I</i></p> <p>This course is a continuation of Health Science I. This entry-level course is designed for the student interested in a career in the pre-hospital emergency medical provider field. Areas of study include personal safety, patient transport (moving and lifting), basic first aid to include medical and trauma emergencies, and CPR. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Emergency Medical Technician</b>	<b>EMER MED TECH</b>	<b>1</b>	<b>L3C</b>	<b>51.0904</b>
<p><i>Prerequisite: Emergency Medical Services or Health Science II or Human Diseases</i></p> <p>This course is a continuation of Emergency Medical Services. This course is designed for the student interested in a career in the pre-hospital emergency medical provider field. Areas of study include legal and ethical issues, patient's airway, medical and trauma assessment, and medical documentation. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will have acquired entry-level skills for employment in this field.</p>				



COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Emergency Medical Technician LAB</b>	<b>EMER MED TECH L</b>	<b>1</b>	<b>L3L</b>	<b>51.0904</b>
<i>Prerequisite: Concurrent enrollment in Emergency Medical Technician</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Emergency Telecommunications I</b>	<b>EMER TELECOMM I</b>	<b>1</b>	<b>L1</b>	<b>43.0399</b>
<i>Prerequisite: None</i> This entry-level course is designed for the student interested in a career in the emergency communications field. Areas of study will include telecommunication centers, dispatching, use of 911 computer systems, participation in emergency scenarios, and call processing. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Emergency Telecommunications II</b>	<b>EMER TELECOMM II</b>	<b>1</b>	<b>L2C</b>	<b>43.0399</b>
<i>Prerequisite: Emergency Telecommunications I</i> This course is a continuation of Emergency Telecommunications I. This course allows advanced emergency telecommunications students to develop their knowledge and skills learned in Emergency Telecommunications I. Areas of study will include instruction using NAED, management of emergency and non-emergency situations, operations of two way radio, computer-aided telecommunication software during catastrophic events. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Entry Level Firefighting</b>	<b>ENTRY LEVEL FIRE</b>	<b>1</b>	<b>L3C</b>	<b>43.0203</b>
<i>Prerequisite: Wildland Firefighting</i> This course is a continuation of Wildland Firefighting. This course allows advanced fire science students to develop their knowledge and skills of advanced principles and procedures employed in fire services. Students will develop response procedures in order to respond to small and catastrophic emergency incidents. Areas of study include incident command systems, EMS training, wildland firefighter Type-2 training, hazardous materials, and emergency fire practices. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Fire Science I</b>	<b>FIRE SCIENCE I</b>	<b>1</b>	<b>L2</b>	<b>43.0203</b>
<i>Prerequisite: Foundations of Public Safety</i> This course introduces the principles and procedures employed in fire services. Students will practice response procedures in order to respond to small and catastrophic emergency incidents and will study laws, ordinances, regulations and organizational rules that define guidelines that govern emergency fire management. Students will compare career field and related careers to develop a personal perspective and an institutional professional growth plan to develop team building and leadership skills related to fire science.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Forensic Science I</b>	<b>FORENSICS SCI I</b>	<b>1</b>	<b>L2</b>	<b>43.0106</b>
<i>Prerequisite: Health Science I</i> This course introduces the principles and procedures employed in criminal and civil investigations. Areas of studies include scientific endeavors such as medicine, pathology, psychology, geology, entomology, fingerprint technology, chemistry, and biology. Emphasis will be put on gathering, analyzing, and interpreting physical evidence, using modern laboratory technologies and procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Forensic Science II</b>	<b>FORENSICS SCI II</b>	<b>1</b>	<b>L3C</b>	<b>43.0106</b>
<i>Prerequisite: Forensic Science I</i> This course is a continuation of Forensic Science I. This course allows advanced forensic science students to develop their knowledge and skills of advanced principles and procedures employed in criminal and civil investigations. Areas of study include scientific endeavors such as medicine, pathology, psychology, geology, entomology, document analysis, chemistry, and biology. Emphasis will be placed on gathering, analyzing, and interpreting physical evidence, using modern laboratory technologies and procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a forensics program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Foundations of Public Safety</b>	<b>FOUN PUBLIC SAFETY</b>	<b>1</b>	<b>L1</b>	<b>43.9999</b>
<i>Prerequisite: None</i> This course is designed as the foundation for a career pathway in Law, Public Safety, Corrections and Security. Students are introduced to the elements and principles of emergency and fire management services, law enforcement services, legal services, and security and protective services.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Law Enforcement I</b>	<b>LAW ENFORCE I</b>	<b>1</b>	<b>L2</b>	<b>43.0107</b>
<i>Prerequisite: Foundations of Public Safety</i> This course will provide the foundations for students interested in careers in law enforcement and security. Using project-based strategies, students gain knowledge in the basic principles of the criminal justice system. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Law Enforcement II</b>	<b>LAW ENFORCE II</b>	<b>1</b>	<b>L3C</b>	<b>43.0107</b>
<i>Prerequisite: Law Enforcement I</i> This course is a continuation of Law Enforcement I. This course provides advanced law enforcement students with instruction in advanced techniques and processes. Areas of study will include basic functions of a law enforcement officer such as taking reports, incident, disposition, and function codes, and other policies and procedures. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a criminal justice program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Wildland Firefighting</b>	<b>WILD FIREFIGHTING</b>	<b>1</b>	<b>L3C</b>	<b>43.0206</b>
<i>Prerequisite: Fire Science I</i> This course is a continuation of Fire Science I. This course provides fire science students with instruction in advanced techniques and processes. This course provides instruction in the primary factors affecting the start and spread of wildfire, pump operations, fire investigations, and potential hazards and human factors on the fire line. This course meets the requirements of S-130 and S-190. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

**WORK EXPERIENCE:**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Work Experience – Health and Public Safety</b>	<b>WORK EXPER HTH PS</b>	<b>1</b>	<b>WK</b>	<b>99.0004</b>
<i>Prerequisite: None</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. Course must follow NAC 389.562, 389.564, 389.566 regulations.				

**ARTS, A/V TECHNOLOGY & COMMUNICATION**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Animation I</b>	<b>ANIMATION I</b>	<b>1</b>	<b>L1</b>	<b>10.0304</b>
<i>Prerequisite: None</i> This course introduces students to the basic principles of two and three-dimensional computer animation and graphics. Areas of study include storyboarding, character creation, background development, traditional animation techniques, and the use of industry-standard technology. Projects are provided to develop the student's career-based animation skills.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Animation II</b>	<b>ANIMATION II</b>	<b>1</b>	<b>L2</b>	<b>10.0304</b>
<i>Prerequisite: Animation I</i> This course is a continuation of Animation I. This course provides students further instruction in principles of two and three-dimensional computer animation and graphics. Areas of study include storyboarding, character creation, background development, and traditional animation techniques. Projects are provided to develop the student's career-based animation skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Animation II LAB</b>	<b>ANIMATION II L</b>	<b>1</b>	<b>L2L</b>	<b>10.0304</b>
<i>Prerequisite: Concurrent enrollment in Animation II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Animation III</b>	<b>ANIMATION III</b>	<b>1</b>	<b>L3C</b>	<b>10.0304</b>
<i>Prerequisite: Animation II</i> This course is a continuation of Animation II. This course provides students advanced instruction in principles of two and three-dimensional computer animation and graphics. Areas of study include storyboarding, character creation, background development, and traditional animation techniques. Projects are provided to develop the student's career-based animation skills. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Animation III LAB</b>	<b>ANIMATION III L</b>	<b>1</b>	<b>L3L</b>	<b>10.0304</b>
<i>Prerequisite: Concurrent enrollment in Animation III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Animation Advanced Studies</b>	<b>ANIMATION AS</b>	<b>1</b>	<b>AS</b>	<b>10.0304</b>
<i>Prerequisite: Animation III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Game Development I</b>	<b>DIG GAME DEV I</b>	<b>1</b>	<b>L1</b>	<b>50.0411</b>
<i>Prerequisite: None</i> This course is designed to introduce students to the elements and structure of game programming and design. The areas of major emphasis in the course are game methodology, programming, game genres, game theory, 2D and 3D interactive experiences, and immersive environments. Students will apply both creative and technical skills to design and refine in addition to implementing the adventure. The appropriate use of technology is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Game Development II</b>	<b>DIG GAME DEV II</b>	<b>1</b>	<b>L2</b>	<b>50.0411</b>
<i>Prerequisite: Digital Game Development I</i> This course is a continuation of Digital Game Development I. This course provides intermediate digital game development students with instruction in advanced techniques and processes. The areas of major emphasis in the course will be implemented in immersive environments and will include development of the student's individual genre of choice and to explore the potential for multi-genre development. Students will apply both creative and technical skills to design and refine in addition to implementing the adventure. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Game Development II LAB</b>	<b>DIG GAME DEV II L</b>	<b>1</b>	<b>L2L</b>	<b>50.0411</b>
<i>Prerequisite: Concurrent enrollment in Digital Game Development II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Game Development III</b>	<b>DIG GAME DEV III</b>	<b>1</b>	<b>L3C</b>	<b>50.0411</b>
<i>Prerequisite: Digital Game Development II</i> This course is a continuation of Digital Game Development II. This course provides advanced digital game development students with instruction in advanced techniques and processes. Emphasis is placed on students developing sophisticated digital games that include intermediate and advanced concepts in design, programming, animation, and 3-D techniques. Project-based learning, collaboration, and portfolio development are essential elements of this course. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Game Development III LAB</b>	<b>DIG GAME DEV III L</b>	<b>1</b>	<b>L3L</b>	<b>50.0411</b>
<i>Prerequisite: Concurrent enrollment in Digital Game Development III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Game Development Advanced Studies</b>	<b>DIG GAME DEV AS</b>	<b>1</b>	<b>AS</b>	<b>50.0411</b>
<i>Prerequisite: Digital Game Development III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Communications and Production I</b>	<b>GRPH COM PROD I</b>	<b>1</b>	<b>L1</b>	<b>10.0301</b>
<i>Prerequisite: None</i> This course is designed to introduce the student to fundamental processes involved in printing, binding and finishing of graphic design. Areas of study will include graphic communications history, design theory, pre-press, and imaging operations, production processes, printing processes, and career exploration.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Communications and Production II</b>	<b>GRPH COM PROD II</b>	<b>1</b>	<b>L2</b>	<b>10.0301</b>
<i>Prerequisite: Graphic Communications and Production I</i> This course is a continuation of Graphic Communications and Production I. This course allows intermediate graphic communication students to develop their knowledge in processes involved in printing, binding and finishing of graphic design. Areas of study include graphic design theory, pre-press and imaging operations, production processes, printing processes, screen printing processes and career exploration. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Communications and Production III</b>	<b>GRPH COM PROD III</b>	<b>1</b>	<b>L3C</b>	<b>10.0301</b>
<i>Prerequisite: Graphic Communications and Production II</i> This course is a continuation of Graphic Communications and Production II. This course allows advanced graphic communication students instruction and practice in advanced techniques and processes. They will continue to develop all skills learned in Graphic Communications and Production I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Communications and Production Advanced Studies</b>	<b>GRPH COM PROD AS</b>	<b>1</b>	<b>AS</b>	<b>10.0301</b>
<i>Prerequisite: Graphic Communications and Production III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Design I</b>	<b>GRAPHIC DESG I</b>	<b>1</b>	<b>L1</b>	<b>50.0409</b>
<i>Prerequisite: None</i> This course is designed to introduce students to the fundamental skills and knowledge needed to create graphic works using industry-standard hardware and software for a variety of purposes and outputs. Areas of study include the understanding of the industry history, terminology, color, design principles, typography and ethical and legal issues related to graphic designs. Emphasis is placed on layout design and the creation and manipulation of graphics. Students will develop their skills utilizing industry-standard software and equipment.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Design II</b>	<b>GRAPHIC DESG II</b>	<b>1</b>	<b>L2</b>	<b>50.0409</b>
<i>Prerequisite: Graphic Design I</i> This course is a continuation of Graphic Design I. This course provides advanced graphic design students with instruction in advanced techniques and processes. Students will work on projects simulating challenges found in the design industry such as corporate identity, publishing, advertising, web applications, and package design. Students will develop their skills utilizing industry-standard software and equipment. Portfolio development will be emphasized. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Design II LAB</b>	<b>GRAPHIC DESG II L</b>	<b>1</b>	<b>L2L</b>	<b>50.0409</b>
<i>Prerequisite: Concurrent enrollment in Graphic Design II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Design III</b>	<b>GRAPHIC DESG III</b>	<b>1</b>	<b>L3C</b>	<b>50.0409</b>
<i>Prerequisite: Graphic Design II</i> This course is a continuation of Graphic Design I. This course provides advanced graphic design students with instruction in advanced techniques and processes. Students will work on projects simulating challenges found in the design industry such as corporate identity, publishing, advertising, web applications, and package design. Students will develop their skills utilizing industry-standard software and equipment. Portfolio development will be emphasized. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field and be prepared for certain industry certifications.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Design III LAB</b>	<b>GRAPHIC DESG III L</b>	<b>1</b>	<b>L3L</b>	<b>50.0409</b>
<i>Prerequisite: Concurrent enrollment in Graphic Design III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Graphic Design Advanced Studies</b>	<b>GRAPHIC DESG AS</b>	<b>1</b>	<b>AS</b>	<b>50.0409</b>
<i>Prerequisite: Graphic Design III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Photography I</b>	<b>PHOTOGRAPHY I</b>	<b>1</b>	<b>L1</b>	<b>50.0406</b>
<i>Prerequisite: None</i> This course is designed to introduce students to the fundamentals of commercial photography in relation to seeing photographically, operating cameras, use of light, image capture, and processing digital images. Students will also learn the history of photography, legal and ethical issues related to the industry. Career exploration is also a part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Photography II</b>	<b>PHOTOGRAPHY II</b>	<b>1</b>	<b>L2</b>	<b>50.0406</b>
<i>Prerequisite: Photography I</i> This course is a continuation of Photography I. This course provides intermediate photography students with instruction in advanced digital techniques and processes. Areas of study include operating cameras, use of light, image capture, and processing digital images. Students will also learn the history of photography, legal and ethical issues related to the industry. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Photography III</b>	<b>PHOTOGRAPHY III</b>	<b>1</b>	<b>L3C</b>	<b>50.0406</b>
<i>Prerequisite: Photography II</i> This course is a continuation of Photography II. This course provides advanced photography students with instruction in advanced digital techniques and processes in commercial photography. Manipulation of images using industry-standard software is also included. Students will be required to exhibit their projects. Students will be prepared for industry certifications. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Photography Advanced Studies</b>	<b>PHOTOGRAPHY AS</b>	<b>1</b>	<b>AS</b>	<b>50.0406</b>
<i>Prerequisite: Photography III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Radio Production I</b>	<b>RADIO PROD I</b>	<b>1</b>	<b>L1</b>	<b>10.0202</b>
<i>Prerequisite: None</i> This course is designed to introduce students to the basic elements and skills needed for radio broadcast production. Operating radio amplifiers, mixers, audio boards, microphones, music CDs, MP3s, and Internet production and the process of On-Air program production are emphasized. Students will become familiar with radio production techniques used within the broadcast industry.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Radio Production II</b>	<b>RADIO PROD II</b>	<b>1</b>	<b>L2</b>	<b>10.0202</b>
<i>Prerequisite: Radio Production I</i> This course is a continuation of Radio Production I. This course provides intermediate radio production students with instruction in advanced techniques and processes. Emphasis is placed on the advanced principles to produce a daily broadcast, pre/post-production, editing techniques, studio, and engineering procedures, and production skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Radio Production II LAB</b>	<b>RADIO PROD II L</b>	<b>1</b>	<b>L2L</b>	<b>10.0202</b>
<i>Prerequisite: Concurrent enrollment in Radio Production II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Radio Production III</b>	<b>RADIO PROD III</b>	<b>1</b>	<b>L3C</b>	<b>10.0202</b>
<i>Prerequisite: Radio Production II</i> This course is a continuation of Radio Production II. This course provides advanced radio production students with instruction in advanced techniques and processes in radio broadcast and production. Emphasis is placed on the advanced principles to produce a daily broadcast, pre/post-production, editing techniques, studio and engineering procedures, and production skills. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Radio Production III LAB</b>	<b>RADIO PROD III L</b>	<b>1</b>	<b>L3L</b>	<b>10.0202</b>
<i>Prerequisite: Concurrent enrollment in Radio Production III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Radio Production Advanced Studies</b>	<b>RADIO PROD AS</b>	<b>1</b>	<b>AS</b>	<b>10.0202</b>
<i>Prerequisite: Radio Production III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Video Production I</b>	<b>VIDEO PROD I</b>	<b>1</b>	<b>L1</b>	<b>50.0602</b>
<i>Prerequisite: None</i> This course is designed to introduce students to the basic elements and skills needed to produce a video. Operating video cameras, script writing, editing equipment, microphones, and the process of On-Air program production are emphasized. Students will become familiar with video production techniques for a variety of purposes, including broadcast journalism.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Video Production II</b>	<b>VIDEO PROD II</b>	<b>1</b>	<b>L2</b>	<b>50.0602</b>
<i>Prerequisite: Video Production I</i> This course is a continuation of Video Production I. This course provides advanced video production students with instruction in advanced techniques and processes. Emphasis is placed on the advanced principles in pre/post-production, editing techniques, studio and engineering procedures, and live broadcast skills. Students will become familiar with video production techniques for a variety of purposes, including broadcast journalism. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Video Production II LAB</b>	<b>VIDEO PROD II L</b>	<b>1</b>	<b>L2L</b>	<b>50.0602</b>
<i>Prerequisite: Concurrent enrollment in Video Production II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Video Production III</b>	<b>VIDEO PROD III</b>	<b>1</b>	<b>L3C</b>	<b>50.0602</b>
<i>Prerequisite: Video Production II</i> This course is a continuation of Video Production II. This course provides advanced video production students with instruction in advanced techniques and processes. Emphasis is placed on the advanced principles in pre/post-production, editing techniques, studio and engineering procedures, and live broadcast skills. Students will become familiar with video production techniques for a variety of purposes, including broadcast journalism. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				



COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Video Production III LAB</b>	<b>VIDEO PROD III L</b>	<b>1</b>	<b>L3L</b>	<b>50.0602</b>
<i>Prerequisite: Concurrent enrollment in Video Production III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Video Production Advanced Studies</b>	<b>VIDEO PROD AS</b>	<b>1</b>	<b>AS</b>	<b>50.0602</b>
<i>Prerequisite: Video Production III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

## INFORMATION TECHNOLOGY

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Computer Science I</b>	<b>COMPUTER SCI I</b>	<b>1</b>	<b>L1</b>	<b>11.0701</b>
<i>Prerequisite: None</i> This course is designed to introduce students to programming and the role of the computer in society. The areas of major emphasis in the course will be on object-oriented programming methodology, algorithms, data structures and ethics. Topics will include program design, program implementation, standard data structures, and standard algorithms.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Computer Science II</b>	<b>COMPUTER SCI II</b>	<b>1</b>	<b>L2</b>	<b>11.0701</b>
<i>Prerequisite: Computer Science I</i> This course is a continuation of Computer Science I. This course provides intermediate computer science students with instruction in advanced techniques and processes. The areas of major emphasis in the course will be on object-oriented programming methodology, algorithms, data structures and ethics. Topics will include program design, program implementation, standard data structures, and standard algorithms. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Computer Science II LAB</b>	<b>COMPUTER SCI II L</b>	<b>1</b>	<b>L2L</b>	<b>11.0701</b>
<i>Prerequisite: Concurrent enrollment in Computer Science II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Computer Science III</b>	<b>COMPUTER SCI III</b>	<b>1</b>	<b>L3C</b>	<b>11.0701</b>
<i>Prerequisite: Computer Science II</i> This course is a continuation of Computer Science II. This course provides advanced computer science students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Computer Science I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. This course may include Advanced Placement curriculum and prepare students for the AP Computer Science exam. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field or entry into a college level Computer Science course of study.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Computer Science III LAB</b>	<b>COMPUTER SCI III L</b>	<b>1</b>	<b>L3L</b>	<b>11.0701</b>
<i>Prerequisite: Concurrent enrollment in Computer Science III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Computer Science Advanced Studies</b>	<b>COMPUTER SCI AS</b>	<b>1</b>	<b>AS</b>	<b>11.0701</b>
<i>Prerequisite: Computer Science III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Database Design I</b>	<b>DBASE DESG I</b>	<b>1</b>	<b>L1</b>	<b>11.0802</b>
<i>Prerequisite: None</i> This course is designed to introduce students to the fundamentals of database design and development. Areas of study include database design, a structured approach to system development, creation and manipulation of data, and retrieval of information from databases. As students learn data modeling, they will also begin to query the databases.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Database Design II</b>	<b>DBASE DESG II</b>	<b>1</b>	<b>L2</b>	<b>11.0802</b>
<i>Prerequisite: Database Design I</i> This course is a continuation of Database Design I. This course provides advanced database design students with instruction in advanced techniques and processes. Students will learn to declare variables, develop stored procedures and use functions. Students will extend their knowledge by learning more advanced features such as creating database triggers, manipulating large objects, and managing dependencies. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Database Design II LAB</b>	<b>DBASE DESG II L</b>	<b>1</b>	<b>L2L</b>	<b>11.0802</b>
<i>Prerequisite: Concurrent enrollment in Database Design II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Database Design III</b>	<b>DBASE DESG III</b>	<b>1</b>	<b>L3C</b>	<b>11.0802</b>
<i>Prerequisite: Database Design II</i> This course is a continuation of Database Design II. This course provides advanced database design students with instruction in advanced techniques and processes. Students will learn to declare variables, develop stored procedures and use functions. Students will extend their knowledge by learning more advanced features such as creating database triggers, manipulating large objects, and managing dependencies. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field and be prepared for certain industry certifications.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Database Design III LAB</b>	<b>DBASE DESG III L</b>	<b>1</b>	<b>L3L</b>	<b>11.0802</b>
<i>Prerequisite: Concurrent enrollment in Database Design III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Database Design Advanced Studies</b>	<b>DBASE DESG AS</b>	<b>1</b>	<b>AS</b>	<b>11.0802</b>
<i>Prerequisite: Database Design III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Geographic Information Systems I</b>	<b>GIS I</b>	<b>1</b>	<b>L1</b>	<b>45.0702</b>
<i>Prerequisite: None</i> This course will introduce the student to the basic concepts and structures of Geographic Information Systems. Students will learn the basic functions of Geographic Information System softwares, processes, and procedures. Students will also become familiar with the environment, applications, and power of a Geographic Information System and be exposed to the unlimited applications and opportunities that Geographic Information Systems have to offer.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Geographic Information Systems II</b>	<b>GIS II</b>	<b>1</b>	<b>L2C</b>	<b>45.0702</b>
<i>Prerequisite: Geographic Information System I</i> This course is a continuation of Geographic Information System I. This course provides advanced GIS students with instruction in advanced techniques and processes of the GIS industry. Areas of study include basic components of map making, map projections and distortions, GIS software used in mapmaking, and concepts of spatial association. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into a GIS program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>IT Essentials I</b>	<b>IT ESSENTIALS I</b>	<b>1</b>	<b>L1</b>	<b>15.1202</b>
<i>Prerequisite: None</i> This course covers the fundamentals of computer hardware and software, as well as topics in design, maintenance, and repair. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>IT Essentials II</b>	<b>IT ESSENTIALS II</b>	<b>1</b>	<b>L2C</b>	<b>15.1202</b>
<i>Prerequisite: IT Essentials I</i> This course covers the fundamentals of computer hardware and software, as well as topics in design, maintenance, and repair. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon completion of this sequence of courses, students will qualify to sit for A+ Certification, a national industry-standard certification exam.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>IT Essentials Advanced Studies</b>	<b>IT ESSENTIALS AS</b>	<b>1</b>	<b>AS</b>	<b>15.1202</b>
<i>Prerequisite: IT Essentials II</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>IT Networking I</b>	<b>IT NETWORKING I</b>	<b>1</b>	<b>L1</b>	<b>11.1002</b>
<i>Prerequisite: None</i> This course will introduce students to the general theories needed to design, build, and maintain home and small business networks. Concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon completion of this sequence of courses, students will qualify to sit for a national industry-standard certification exam.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>IT Networking II</b>	<b>IT NETWORKING II</b>	<b>1</b>	<b>L2</b>	<b>11.1002</b>
<i>Prerequisite: IT Networking I</i> This course is a continuation of IT Networking I. This course provides intermediate students with the general theory of distance vector routing protocols and skills required for advanced router configuration, including interfaces, Routing Information Protocol (RIP) and Enhanced Interior Gateway Routing Protocol (EIGRP). Concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon completion of this sequence of courses, students will qualify to sit for a national industry-standard certification exam.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>IT Networking III</b>	<b>IT NETWORKING III</b>	<b>1</b>	<b>L3</b>	<b>11.1002</b>
<i>Prerequisite: IT Networking II</i> This course is a continuation of IT Networking II. This course provides intermediate students with the general theory of switching and intermediate routing, including virtual local-area networks (VLAN), interVLAN routing, wireless local area networks (LAN), and network troubleshooting. Concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon completion of this sequence of courses, students will qualify to sit for a national industry-standard certification exam.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>IT Networking IV</b>	<b>IT NETWORKING IV</b>	<b>1</b>	<b>L4C</b>	<b>11.1002</b>
<i>Prerequisite: IT Networking III</i> This course is a continuation of IT Networking III. This course provides advanced students with the general theory needed to understand Wide-Area Network (WAN) technologies. Classroom concepts learned will provide the students with the opportunity to further their education in Information Technology (IT) and prepare for entry-level IT careers. Upon completion of this course, students will qualify to sit for a national industry-standard certification exam.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Web Design and Development I</b>	<b>WEB DESG DEV I</b>	<b>1</b>	<b>L1</b>	<b>11.0801</b>
<i>Prerequisite: None</i> This course is designed to introduce students to the basic elements of web design and development. Students will learn about content placement, use of color and graphics, typography and message using industry-standard software. Students are introduced to various web design languages, design concepts, and layout theory. Students will become familiar with marketing and other uses of websites; as well as ethical and legal issues related to websites.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Web Design and Development II</b>	<b>WEB DESG DEV II</b>	<b>1</b>	<b>L2</b>	<b>11.0801</b>
<i>Prerequisite: Web Design and Development I</i> This course is a continuation of Web Design and Development I. This course is designed for intermediate students to create websites for a variety of purposes. Students will develop their knowledge of content, placement, use of color and graphics, typography and message using industry-standard software. Students will use various web design languages, design concepts, and layout theories to create their websites. Students will examine the role of marketing and market research as it relates to websites, as well as ethical and legal issues related to websites. Project-based learning, collaboration, and portfolio development are essential elements of this class. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Web Design and Development III</b>	<b>WEB DESG DEV III</b>	<b>1</b>	<b>L3C</b>	<b>11.0801</b>
<i>Prerequisite: Web Design and Development II</i> This course is a continuation of Web Design and Development II. This course is designed for advanced students to create websites for a variety of purposes using advanced techniques and processes. Areas of study include automation, animation and interactivity in websites, as well as, web servers and a more extensive knowledge of website construction. Project-based learning, collaboration, and portfolio development are essential elements of this class. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Web Design and Development Advanced Studies</b>	<b>WEB DESG DEV AS</b>	<b>1</b>	<b>AS</b>	<b>11.0801</b>
<p><i>Prerequisite: Website Design and Development III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

**WORK EXPERIENCE:**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Work Experience – Information and Media Technology</b>	<b>WORK EXPER IMT</b>	<b>1</b>	<b>WK</b>	<b>99.0005</b>
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. Course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				

## ARCHITECTURE & CONSTRUCTION

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Air Conditioning and Refrigeration I</b>	<b>HVACRI</b>	<b>1</b>	<b>L1</b>	<b>47.0201</b>
<i>Prerequisite: None</i> This course will introduce students to the basic operation of air conditioning principles and practices. Applications include principles of an effective employee, industrial safety standards, thermodynamics, psychometrics, piping techniques, control systems, cooling system service, and electric heat systems.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Air Conditioning and Refrigeration II</b>	<b>HVACR II</b>	<b>1</b>	<b>L2</b>	<b>47.0201</b>
<i>Prerequisite: Air Conditioning and Refrigeration I</i> This course is a continuation of Air Conditioning and Refrigeration I. This course focuses intermediate air conditioning and refrigeration students on servicing air handling systems, heat pumps, gas heat systems, commercial refrigeration systems, and icemakers. Instruction is provided in system installation, troubleshooting techniques, calculation of heat loss/gain, ductwork size and design, air balance, and pneumatic controls. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Air Conditioning and Refrigeration II LAB</b>	<b>HVACR II L</b>	<b>1</b>	<b>L2L</b>	<b>47.0201</b>
<i>Prerequisite: Concurrent enrollment in Air Conditioning and Refrigeration II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Air Conditioning and Refrigeration III</b>	<b>HVACR III</b>	<b>1</b>	<b>L3C</b>	<b>47.0201</b>
<i>Prerequisite: Air Conditioning and Refrigeration II</i> This course is a continuation of Air Conditioning and Refrigeration II. This course provides advanced air conditioning and refrigeration students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Air Conditioning and Refrigeration I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Air Conditioning and Refrigeration III LAB</b>	<b>HVACR III L</b>	<b>1</b>	<b>L3L</b>	<b>47.0201</b>
<i>Prerequisite: Concurrent enrollment in Air Conditioning and Refrigeration III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Air Conditioning and Refrigeration Advanced Studies</b>	<b>HVACR AS</b>	<b>1</b>	<b>AS</b>	<b>47.0201</b>
<i>Prerequisite: Air Conditioning and Refrigeration III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Architectural Drafting and Design I</b>	<b>ARCH CADD I</b>	<b>1</b>	<b>L1</b>	<b>15.1303</b>
<i>Prerequisite: None</i> This course provides CADD (Computer-Aided Drafting and Design) students with the basic principles of architectural drawing and design and introductory civil engineering skills. This course also provides a basic understanding of current building codes, basic building construction methods, building materials, and architectural drafting information and methods. Activities are provided to develop the student's architectural CADD and civil engineering skills. The appropriate use of technology is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Architectural Drafting and Design I LAB</b>	<b>ARCH CADD I L</b>	<b>1</b>	<b>L1L</b>	<b>15.1303</b>
<i>Prerequisite: Concurrent enrollment in Architectural Drafting and Design I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Architectural Drafting and Design II</b>	<b>ARCH CADD II</b>	<b>1</b>	<b>L2</b>	<b>15.1303</b>
<i>Prerequisite: Architectural Drafting and Design I</i> This course is a continuation of Architectural Drafting and Design I. This course provides intermediate CADD (Computer-Aided Drafting and Design) students with advanced principles of architectural drawing and design and civil engineering skills. This course will expand the students' knowledge of current building codes, building construction methods, building materials, and architectural drafting information and methods. Activities are provided to develop the student's architectural CADD and civil engineering skills. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Architectural Drafting and Design II LAB</b>	<b>ARCH CADD II L</b>	<b>1</b>	<b>L2L</b>	<b>15.1303</b>
<i>Prerequisite: Concurrent enrollment in Architectural Drafting and Design II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Architectural Drafting and Design III</b>	<b>ARCH CADD III</b>	<b>1</b>	<b>L3C</b>	<b>15.1303</b>
<i>Prerequisite: Architectural Drafting and Design II</i> This course is a continuation of Architectural Drafting and Design II. This course provides advanced CADD (Computer-Aided Drafting and Design) students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Architectural Drafting and Design I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Architectural Drafting and Design III LAB</b>	<b>ARCH CADD III L</b>	<b>1</b>	<b>L3L</b>	<b>15.1303</b>
<i>Prerequisite: Concurrent enrollment in Architectural Drafting and Design III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				



COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Architectural Drafting and Design Advanced Studies</b>	<b>ARCH CADD AS</b>	<b>1</b>	<b>AS</b>	<b>15.1303</b>
<i>Prerequisite: Architectural Drafting and Design III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Building Maintenance Services I</b>	<b>BUILD MAINT I</b>	<b>1</b>	<b>L1</b>	<b>46.0401</b>
<i>Prerequisite: None</i> This course prepares students for entry-level jobs as building maintenance or custodial workers. Students are provided with occupational training that includes floor and carpet care, wall maintenance, basic hand tool usage, window and furniture cleaning, and the proper handling and application of cleaning and floor care compounds. Students also develop skills in the safe use of power cleaning equipment and tools.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Building Maintenance Services II</b>	<b>BUILD MAINT II</b>	<b>1</b>	<b>L2C</b>	<b>46.0401</b>
<i>Prerequisite: Building Maintenance Services I</i> This course is a continuation of Building Maintenance Services I. This course provides intermediate building maintenance students with instruction in advanced techniques on the safe use of power cleaning equipment, tools, and processes. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Management I</b>	<b>CONST MGMT I</b>	<b>1</b>	<b>L1</b>	<b>46.0412</b>
<i>Prerequisite: None</i> This course will introduce students to the world of construction. This course will introduce students to construction industry planning, management, finance, technical/production skills, and underlying principles of technology. Through a hands-on approach, each student will develop basic understanding in the areas of construction: electrical, plumbing, blueprint reading, pre-engineering, model building, carpentry, and rough framing. Practical application of safe work habits and the correct use of tools and equipment will be emphasized throughout this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Management II</b>	<b>CONST MGMT II</b>	<b>1</b>	<b>L2</b>	<b>46.0412</b>
<i>Prerequisite: Construction Management I</i> This course is a continuation of Construction Management I. This course provides intermediate construction management students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Construction Management I. Through a hands-on approach, each student will continue to develop and refine skills in carpentry, plumbing, masonry, taping, plastering, electrical, site design, and construction management. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Management II LAB</b>	<b>CONST MGMT II L</b>	<b>1</b>	<b>L2L</b>	<b>46.0412</b>
<i>Prerequisite: Concurrent enrollment in Construction Management II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Management III</b>	<b>CONST MGMT III</b>	<b>1</b>	<b>L3C</b>	<b>46.0412</b>
<i>Prerequisite: Construction Management II</i> This course is a continuation of Construction Management II. This course provides advanced construction management students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Construction Management I and II. Through a hands-on approach, each student will continue to develop and refine skills in carpentry, plumbing, masonry, taping, plastering, electrical, site design, and construction management. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Management III LAB</b>	<b>CONST MGMT III L</b>	<b>1</b>	<b>L3L</b>	<b>46.0412</b>
<i>Prerequisite: Concurrent enrollment in Construction Management III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Management Advanced Studies</b>	<b>CONST MGMT AS</b>	<b>1</b>	<b>AS</b>	<b>46.0412</b>
<i>Prerequisite: Construction Management III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Technology I</b>	<b>CONST TECH I</b>	<b>1</b>	<b>L1</b>	<b>46.0000</b>
<i>Prerequisite: None</i> This course will introduce students to the world of construction. Through a hands-on approach, each student will develop basic understanding in the areas of construction: electrical, plumbing, blueprint reading, pre-engineering, model building, carpentry, and rough framing. Practical application of safe work habits and the correct use of tools and equipment will be emphasized throughout this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Technology I LAB</b>	<b>CONST TECH I L</b>	<b>1</b>	<b>L1L</b>	<b>46.0000</b>
<i>Prerequisite: Concurrent enrollment in Construction Technology I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Technology II</b>	<b>CONST TECH II</b>	<b>1</b>	<b>L2</b>	<b>46.0000</b>
<i>Prerequisite: Construction Technology I</i> This course is a continuation of Construction Technology I. This course provides intermediate construction students with knowledge and skills in blueprint reading, surveying, site development, scaffolding, electrical, plumbing, and masonry. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Technology II LAB</b>	<b>CONST TECH II L</b>	<b>1</b>	<b>L2L</b>	<b>46.0000</b>
<i>Prerequisite: Concurrent enrollment in Construction Technology II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Technology III</b>	<b>CONST TECH III</b>	<b>1</b>	<b>L3C</b>	<b>46.0000</b>
<i>Prerequisite: Construction Technology II</i> This course is a continuation of Construction Technology II. This course provides advanced construction students with knowledge and skills in finish carpentry and cabinetmaking for construction applications. Through hands-on projects, students develop technical skills that are used throughout the construction industry. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Technology III LAB</b>	<b>CONST TECH III L</b>	<b>1</b>	<b>L3L</b>	<b>46.0000</b>
<i>Prerequisite: Concurrent enrollment in Construction Technology III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Construction Technology Advanced Studies</b>	<b>CONST TECH AS</b>	<b>1</b>	<b>AS</b>	<b>46.0000</b>
<i>Prerequisite: Construction Technology III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Home Technology Integration I</b>	<b>DIG HOME TECH I</b>	<b>1</b>	<b>L3</b>	<b>47.0110</b>
<i>Prerequisite: IT Essentials II</i> This course introduces the student to the fundamentals of digital home technology integration. Areas of study include computer networks, lighting control, home security, home entertainment, heating and air conditioning, video, data and voice systems. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Home Technology Integration I LAB</b>	<b>DIG HOME TECH I L</b>	<b>1</b>	<b>L3L</b>	<b>47.0110</b>
<i>Prerequisite: Concurrent enrollment in Digital Home Technology Integration I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Home Technology Integration II</b>	<b>DIG HOME TECH II</b>	<b>1</b>	<b>L4C</b>	<b>47.0110</b>
<p><i>Prerequisite: Digital Home Technology Integration I</i></p> <p>This course is a continuation of Digital Home Technology Integration I. This course provides advanced digital home technology students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Digital Home Technology Integration I. Areas of study include integration and maintenance of various home technology subsystem, home automation, security and surveillance, home networks, video and audio networks. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Home Technology Integration II LAB</b>	<b>DIG HOME TECH II L</b>	<b>1</b>	<b>L4L</b>	<b>47.0110</b>
<p><i>Prerequisite: Concurrent enrollment in Digital Home Technology Integration II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Introduction to Drafting and Design</b>	<b>INTRO CADD</b>	<b>.5</b>	<b>PL1</b>	<b>15.1302</b>
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of mechanical and architectural drafting and design. This course provides students with the knowledge and practice required to produce basic multi-view drawings, pictorial drawings, and dimensioning. Students will gain experience using both sketching techniques and have limited exposure to computer-assisted drafting programs.</p> <p><b>Please note:</b> This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Architectural and Mechanical Drafting and Design State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for these program areas. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Drafting and Design I</b>	<b>CADD I</b>	<b>1</b>	<b>L1</b>	<b>15.1302</b>
<p><i>Prerequisite: None</i></p> <p>This course introduces the student to the fundamentals of mechanical and architectural drawing. This course provides students with the knowledge and practice required to produce and analyze multi-view drawings, pictorial drawings, and dimensioning. Students will gain experience using both sketching techniques and computer assisted drafting programs. Various career opportunities and areas for postsecondary study will be explored.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Drafting and Design II</b>	<b>CADD II</b>	<b>1</b>	<b>L2</b>	<b>15.1302</b>
<p><i>Prerequisite: Drafting and Design I</i></p> <p>This course is a continuation of Drafting and Design I. This course provides intermediate CADD (Computer-Aided Drafting and Design) students with advanced techniques and processes related to the various drafting and design industries. Areas of study include the development of advance CADD and sketching skills, plotting, scaling, auxiliary views, intersections, problem solving, critiquing, and team building. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Drafting and Design III Architecture</b>	<b>CADD III ARCHITECT</b>	<b>1</b>	<b>L3C</b>	<b>15.1303</b>
<p><i>Prerequisite: Drafting and Design II</i></p> <p>This course is a continuation of Drafting and Design II. This course provides advanced CADD (Computer-Aided Drafting and Design) students with the basic principles of architectural drawing and design and introductory civil engineering skills. This course also provides a basic understanding of current building codes, basic building construction methods, building materials, and architectural drafting information and methods. Activities are provided to develop the student's architectural CADD and civil engineering skills. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Drafting and Design Advanced Studies</b>	<b>CADD AS</b>	<b>1</b>	<b>AS</b>	<b>15.1302</b>
<p><i>Prerequisite: Drafting and Design III Architecture or Drafting and Design III Mechanical</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Introduction to Furniture and Cabinetmaking</b>	<b>INTRO FURN CAB</b>	<b>.5</b>	<b>PL1</b>	<b>48.0702</b>
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of furniture and cabinetmaking. This course is intended to provide students with the basic knowledge and skills necessary to design, construct, and finish furniture and/or cabinets in the woodworking industry.</p> <p><b>Please note:</b> This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Furniture and Cabinetmaking State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for this program area. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Furniture and Cabinetmaking I</b>	<b>FURN CABINET I</b>	<b>1</b>	<b>L1</b>	<b>48.0702</b>
<p><i>Prerequisite: None</i></p> <p>This course will introduce the beginning furniture and cabinetmaking student to the various stages of construction and assembly of wood products and related materials. This course is intended to provide students with the basic knowledge and skills necessary to design, construct, and finish furniture and/or cabinets in the woodworking industry. Through the course activities the student will gain an understanding of safety procedures, machine operation, and industrial applications.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Furniture and Cabinetmaking II</b>	<b>FURN CABINET II</b>	<b>1</b>	<b>L2</b>	<b>48.0702</b>
<p><i>Prerequisite: Furniture and Cabinetmaking I</i></p> <p>This course is a continuation of Furniture and Cabinetmaking I. This course provides intermediate furniture and cabinetmaking student with the necessary knowledge and skills to pursue employment in related industries. This course will increase knowledge gained in Furniture and Cabinetmaking I. Laboratory activities will include advanced processes using tools and equipment currently being used by the industry, including the software and hardware components of computer numerical-controlled (CNC) equipment. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Furniture and Cabinetmaking III</b>	<b>FURN CABINET III</b>	<b>1</b>	<b>L3C</b>	<b>48.0703</b>
<i>Prerequisite: Furniture and Cabinetmaking II</i> This course is a continuation of Furniture and Cabinetmaking II. This course provides advanced furniture and cabinetmaking students with knowledge and skills in finish carpentry and cabinetmaking for construction applications. Through hands-on projects, students develop technical skills that are used throughout the construction industry. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Furniture and Cabinetmaking Advanced Studies</b>	<b>FURN CABINET AS</b>	<b>1</b>	<b>AS</b>	<b>48.0703</b>
<i>Prerequisite: Furniture and Cabinetmaking III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Theater Design Technology I</b>	<b>THEATER TECH I</b>	<b>1</b>	<b>L1</b>	<b>50.0502</b>
<i>Prerequisite: None</i> This course will introduce the student to the craft and technical skills of a theatrical production. Students will be instructed in theatre safety, stage lighting, sound, scenic design and construction, properties, painting, and backstage responsibilities.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Theater Design Technology II</b>	<b>THEATER TECH II</b>	<b>1</b>	<b>L2</b>	<b>50.0502</b>
<i>Prerequisite: Theater Design Technology I</i> This course is a continuation of Theater Design Technology I. This course provides intermediate theater design technology students with instruction in advanced techniques and processes. Areas of study include lighting, sound, stage, and set design. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Theater Design Technology III</b>	<b>THEATER TECH III</b>	<b>1</b>	<b>L3C</b>	<b>50.0502</b>
<i>Prerequisite: Theater Design Technology II</i> This course is a continuation of Theater Design Technology II. This course provides advanced theater design technology students with instruction in advanced techniques and processes. Areas of study include lighting, sound, stage, and set design. Students will be expected to design, construct and apply theatre production skills for all school productions. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Theater Design Technology Advanced Studies</b>	<b>THEATER TECH AS</b>	<b>1</b>	<b>AS</b>	<b>50.0502</b>
<i>Prerequisite: Theater Design Technology III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

## HUMAN SERVICES

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Cosmetology I</b>	<b>COSMETOLOGY I</b>	<b>6</b>	<b>L1</b>	<b>12.0401</b>
<p><i>Prerequisite: None</i></p> <p>The six-credit-block course is designed to prepare students for the Nevada State Board of Cosmetology Licensing Exam and to meet the 1800-hour requirement for licensure. Students have the opportunity to receive a master license that allows them to choose many career options such as a nail technician, aesthetician, or hair stylist. The goal of the program is to provide a real-work environment where students work on the public to practice and master those skills necessary for success in the workplace. The curriculum includes theory and clinical instruction in professional ethics, sanitation, human anatomy, facials, skin care, makeup application, manicures, pedicures, acrylic nails, haircutting, hair coloring, permanent waving, chemical relaxing, and all phases of hair care. Emphasis is also placed on job seeking/keeping skills, such as effective communication, customer service, teamwork, filling out a job application, building a resume, and interviewing techniques. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Cosmetology II</b>	<b>COSMETOLOGY II</b>	<b>6</b>	<b>L2C</b>	<b>12.0401</b>
<p><i>Prerequisite: Cosmetology I</i></p> <p>The six-credit-block course is designed to prepare students for the Nevada State Board of Cosmetology Licensing Exam and to meet the 1800-hour requirement for licensure. Students have the opportunity to receive a master license that allows them to choose many career options such as a nail technician, aesthetician, or hair stylist. The goal of the program is to provide a real-work environment where students work on the public to practice and master those skills necessary for success in the workplace. The curriculum includes theory and clinical instruction in professional ethics, sanitation, human anatomy, facials, skin care, makeup application, manicures, pedicures, acrylic nails, haircutting, hair coloring, permanent waving, chemical relaxing, and all phases of hair care. Emphasis is also placed on job seeking/keeping skills, such as effective communication, customer service, teamwork, filling out a job application, building a resume, and interviewing techniques. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				

## MANUFACTURING

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Drafting and Design III Mechanical</b>	<b>CADD III MECH</b>	<b>1</b>	<b>L3C</b>	<b>15.1306</b>
<i>Prerequisite: Drafting and Design II</i> This course is a continuation of Drafting and Design II. This course provides advanced CADD (Computer-Aided Drafting and Design) students with the basic principles of mechanical and technical drawing in the areas of study that include an introduction to electrical and mechanical engineering, geometric dimensioning and tolerancing, pattern development, and other mechanical design technologies. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Electronics I</b>	<b>ELECTRONICS I</b>	<b>1</b>	<b>L1</b>	<b>47.0105</b>
<i>Prerequisite: None</i> This course introduces the student to electronic practices and fundamentals, roles of electronics in communications and industry, and career development. Topics include safety, tools, basic direct current (DC), alternating current (AC), schematics, soldering, measuring electricity, Ohm's/Watt's/Kirchhoff's Laws, semiconductors, electronic circuits, and digital theory.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Electronics II</b>	<b>ELECTRONICS II</b>	<b>1</b>	<b>L2</b>	<b>47.0105</b>
<i>Prerequisite: Electronics I</i> This course is a continuation of Electronics I. This course introduces intermediate students to advanced practices, principles, special equipment and materials. Students will develop their knowledge and skills learned in Electronics I. Topics include safety, inductive/capacitive/RCL circuits, semiconductor devices, rectifier/filter circuits, discrete devices and such skills necessary to obtain meaningful employment in the electronics industry. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Electronics II LAB</b>	<b>ELECTRONICS II L</b>	<b>1</b>	<b>L2L</b>	<b>47.0105</b>
<i>Prerequisite: Concurrent enrollment in Electronics II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Electronics III</b>	<b>ELECTRONICS III</b>	<b>1</b>	<b>L3C</b>	<b>47.0105</b>
<i>Prerequisite: Electronics II</i> This course is a continuation of Electronics II. This course provides advanced electronics students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Electronics I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Electronics III LAB</b>	<b>ELECTRONICS III L</b>	<b>1</b>	<b>L3L</b>	<b>47.0105</b>
<i>Prerequisite: Concurrent enrollment in Electronics III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				



COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Electronics Advanced Studies</b>	<b>ELECTRONICS AS</b>	<b>1</b>	<b>AS</b>	<b>47.0105</b>
<i>Prerequisite: Electronics III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Machine Tool Technology I</b>	<b>MACHINE TOOL I</b>	<b>1</b>	<b>L1</b>	<b>48.0501</b>
<i>Prerequisite: None</i> This course introduces students to the basic skills and machines needed in precision metal work. Students gain machining skills while working with lathes, milling machines, surface grinders, drill presses, and other equipment. In addition, students learn the basics of blueprint reading, precision measuring, layout, and machining process planning.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Machine Tool Technology I LAB</b>	<b>MACHINE TOOL I L</b>	<b>1</b>	<b>L1L</b>	<b>48.0501</b>
<i>Prerequisite: Concurrent enrollment in Machine Tool Technology I</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Machine Tool Technology II</b>	<b>MACHINE TOOL II</b>	<b>1</b>	<b>L2C</b>	<b>48.0501</b>
<i>Prerequisite: Machine Tool Technology I</i> This course is a continuation of Machine Tool Technology I. This course provides advanced machine tool technology students with more in-depth skill development in various types of precision tool operation, especially using mills, lathes, and surface grinders to perform machining tasks. Power cutoff saws and power band saws are also covered. Students also explore the use of computer and numerical controlled machining. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Machine Tool Technology II LAB</b>	<b>MACHINE TOOL II L</b>	<b>1</b>	<b>L2L</b>	<b>48.0501</b>
<i>Prerequisite: Concurrent enrollment in Machine Tool Technology II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Drafting and Design I</b>	<b>MECH CADD I</b>	<b>1</b>	<b>L1</b>	<b>15.1306</b>
<i>Prerequisite: None</i> This course is a continuation of Drafting and Design I. This course provides beginning CADD (Computer-Aided Drafting and Design) students with the basic principles of mechanical and technical drawing in the areas of study that include an introduction to electrical and mechanical engineering, geometric dimensioning and tolerancing, pattern development, and other mechanical design techniques. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Drafting and Design I LAB</b>	<b>MECH CADD I L</b>	<b>1</b>	<b>L1L</b>	<b>15.1306</b>
<p><i>Prerequisite: Concurrent enrollment in Mechanical Drafting and Design I</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Drafting and Design II</b>	<b>MECH CADD II</b>	<b>1</b>	<b>L2</b>	<b>15.1306</b>
<p><i>Prerequisite: Mechanical Drafting and Design I</i></p> <p>This course is a continuation of Mechanical Drafting and Design I. This course provides intermediate CADD (Computer-Aided Drafting and Design) students with advanced techniques and processes of the mechanical design industry. Areas of study include electrical and mechanical engineering design, geometric dimensioning and tolerancing, pattern development, and other engineering design technologies. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Drafting and Design II LAB</b>	<b>MECH CADD II L</b>	<b>1</b>	<b>L2L</b>	<b>15.1306</b>
<p><i>Prerequisite: Concurrent enrollment in Mechanical Drafting and Design II</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Drafting and Design III</b>	<b>MECH CADD III</b>	<b>1</b>	<b>L3C</b>	<b>15.1306</b>
<p><i>Prerequisite: Mechanical Drafting and Design II</i></p> <p>This course is a continuation of Mechanical Drafting and Design II. This course provides advanced CADD (Computer-Aided Drafting and Design) students with advanced techniques and processes of the mechanical design industry. They will continue to develop all skills learned in Mechanical Drafting and Design I and II. Areas of study include electrical and mechanical engineering design, geometric dimensioning and tolerancing, pattern development, and other engineering design technologies. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Drafting and Design III LAB</b>	<b>MECH CADD III L</b>	<b>1</b>	<b>L3L</b>	<b>15.1306</b>
<p><i>Prerequisite: Concurrent enrollment in Mechanical Drafting and Design III</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Drafting and Design Advanced Studies</b>	<b>MECH CADD AS</b>	<b>1</b>	<b>AS</b>	<b>15.1306</b>
<p><i>Prerequisite: Mechanical Drafting and Design III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Technology I</b>	<b>MECH TECH I</b>	<b>1</b>	<b>L1</b>	<b>47.0303</b>
<i>Prerequisite: None</i> This course introduces students to the operation and maintenance of various mechanical, electrical, and fluid power systems. Content includes general skills in the use of tools, safety, equipment, materials, and problem solving. Fundamental skills such as the proper use of fasteners, safety practices, precision measuring tools, and electrical test equipment will be mastered.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Technology II</b>	<b>MECH TECH II</b>	<b>1</b>	<b>L2</b>	<b>47.0303</b>
<i>Prerequisite: Mechanical Technology I</i> This course is a continuation of Mechanical Technology I. This course provides intermediate mechanical technology students opportunities to explore the various forms of power application mechanisms. Areas of emphasis include robotics, hydraulics, pneumatics, electrical, mechanical, and other systems of power transmission. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Technology II LAB</b>	<b>MECH TECH II L</b>	<b>1</b>	<b>L2L</b>	<b>47.0303</b>
<i>Prerequisite: Concurrent enrollment in Mechanical Technology II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Technology III</b>	<b>MECH TECH III</b>	<b>1</b>	<b>L3C</b>	<b>47.0303</b>
<i>Prerequisite: Mechanical Technology II</i> This course is a continuation of Mechanical Technology II. This course provides advanced mechanical technology students with instruction in advanced techniques and processes. Areas of emphasis include assembling, operating, and maintaining various electrical motor controllers, mechanical power transmission systems, and high pressure fluid power systems. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Technology III LAB</b>	<b>MECH TECH III L</b>	<b>1</b>	<b>L3L</b>	<b>47.0303</b>
<i>Prerequisite: Concurrent enrollment in Mechanical Technology III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Mechanical Technology Advanced Studies</b>	<b>MECH TECH AS</b>	<b>1</b>	<b>AS</b>	<b>47.0303</b>
<i>Prerequisite: Mechanical Technology III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Introduction to Metalworking</b>	<b>INTRO METALS</b>	<b>.5</b>	<b>PL1</b>	<b>48.0511</b>
<p><i>Prerequisite: None</i></p> <p>This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of metalworking. The areas of instruction include fundamentals of sheet and bench metal, oxyacetylene welding and cutting, and arc welding. This course will emphasize instruction in mathematics and measurement which will be used in completing metalworking projects and assignments.</p> <p><b>Please note:</b> This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Metalworking State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for this program area. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Metalworking I</b>	<b>METALWORKING I</b>	<b>1</b>	<b>L1</b>	<b>48.0511</b>
<p><i>Prerequisite: None</i></p> <p>This course introduces students to a general overview of metalworking processes. Students will gain an understanding of equipment, tools, safety procedures, machine operation, metal-fabricating methods, industrial applications, and problem solving. Students will be introduced to career opportunities and necessary job skills.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Metalworking II</b>	<b>METALWORKING II</b>	<b>1</b>	<b>L2</b>	<b>48.0511</b>
<p><i>Prerequisite: Metalworking I</i></p> <p>This course is a continuation of Metalworking I. This course will enhance students' occupational levels of training, understanding, and skill development in the metal-working processes. Emphasis will be directed toward the principles of metallurgy, metal lathe operation, forging methods, casting process, and heat-treating procedures. Advanced welding methods will be presented as well as career awareness and opportunities in the metals industries. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Metalworking III</b>	<b>METALWORKING III</b>	<b>1</b>	<b>L3C</b>	<b>48.0511</b>
<p><i>Prerequisite: Metalworking II</i></p> <p>This course is a continuation of Metalworking II. This course is designed to review the basic elements and processes of metalworking. Students will further develop skills by learning complex metal machining procedures, metallurgy, and industrial production methods and controls. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Metalworking Advanced Studies</b>	<b>METALWORKING AS</b>	<b>1</b>	<b>AS</b>	<b>48.0511</b>
<p><i>Prerequisite: Metalworking III</i></p> <p>This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Renewable Energy Technology I</b>	<b>RENEW ENERGY I</b>	<b>1</b>	<b>L1</b>	<b>15.0503</b>
<i>Prerequisite: None</i> This course introduces students to the development of energy sources from wind, solar, biomass, and geothermal resources. Students will engage in the use and development of energy conversion systems such as solar conversion systems, bioconversion systems, and other renewable energy sources. Students will also explore environmental impacts and availability of renewable energy resources.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Renewable Energy Technology II</b>	<b>RENEW ENERGY II</b>	<b>1</b>	<b>L2</b>	<b>15.0503</b>
<i>Prerequisite: Renewable Energy Technology I</i> This course is a continuation of Renewable Energy Technology I. This course provides intermediate renewable energy technology students with instruction in advanced techniques and processes. Areas of emphasis include electric motors, programmable logic controllers, instrumentation, and basic electricity. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Renewable Energy Technology III</b>	<b>RENEW ENERGY III</b>	<b>1</b>	<b>L3C</b>	<b>15.0503</b>
<i>Prerequisite: Renewable Energy Technology II</i> This course is a continuation of Renewable Energy Technology II. This course provides advanced renewable energy technology students with instruction in advanced techniques and processes. Areas of emphasis include solar energy, wind energy, and geothermal energy resources. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Renewable Energy Technology Advance Studies</b>	<b>RENEW ENERGY AS</b>	<b>1</b>	<b>AS</b>	<b>15.0503</b>
<i>Prerequisite: Renewable Energy Technology III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Welding Technology I</b>	<b>WELDING TECH I</b>	<b>1</b>	<b>L1</b>	<b>48.0508</b>
<i>Prerequisite: None</i> This course will introduce the student to the concepts and practices in welding while allowing the more ambitious student to gain occupational training experience necessary to participate in the American Welding Society Certification test. This course is intended to provide students with the basic knowledge, skills, and theory in the characteristics of metals, their structure and properties, and welding technologies. Students will gain an understanding of welding equipment, tools, safety procedures, machine operation, and industrial applications, and provide them with entry-level skills for employment.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Welding Technology II</b>	<b>WELDING TECH II</b>	<b>1</b>	<b>L2</b>	<b>48.0508</b>
<i>Prerequisite: Welding Technology I</i> This course is a continuation of Welding I. This course provides intermediate welding students the ability to augment and further the skill and knowledge levels. Areas of study will include advanced layout and fabrication methodologies, gas tungsten arc welding of aluminum, stainless steel and TIG spot welding, welding metallurgy, and electric theory. All student activities are designed to enhance students' skill levels toward achievement of American Welding Society certification and/or American Society of Mechanical Engineering welding certification. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Welding Technology II Lab</b>	<b>WELDING TECH II L</b>	<b>1</b>	<b>L2L</b>	<b>48.0508</b>
<i>Prerequisite: Concurrent enrollment in Welding Technology II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Welding Technology III</b>	<b>WELDING TECH III</b>	<b>1</b>	<b>L3C</b>	<b>48.0508</b>
<i>Prerequisite: Welding Technology II</i> This course is a continuation of Welding II. This course provides advanced welding students the ability to augment and further their skill and knowledge levels. All student activities are designed to prepare the students' skill levels to achieve the American Welding Society certification and/or American Society of Mechanical Engineering welding certification. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Welding Technology III Lab</b>	<b>WELDING TECH III L</b>	<b>1</b>	<b>L3L</b>	<b>48.0508</b>
<i>Prerequisite: Concurrent enrollment in Welding Technology III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Welding Technology Advanced Studies</b>	<b>WELDING TECH AS</b>	<b>1</b>	<b>AS</b>	<b>48.0508</b>
<i>Prerequisite: Welding III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

## SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Aerospace Engineering</b>	<b>AEROSPACE ENG</b>	<b>1</b>	<b>L3</b>	<b>14.0201</b>
<i>Prerequisite: Principles of Engineering</i> This course is part of the nationally recognized Project Lead The Way™ curriculum. Aerospace Engineering engages students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of space science, principles of aeronautics, structures and materials, and systems engineering. Using 3-D design software, students work in teams utilizing hands-on activities, projects and problems and are exposed to various situations encountered by aerospace engineers.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Biotechnical Engineering</b>	<b>BIOTECH ENG</b>	<b>1</b>	<b>L3</b>	<b>14.0501</b>
<i>Prerequisite: Principles of Engineering</i> This course is part of the nationally recognized Project Lead The Way™ curriculum. The major focus of this course is to expose students to the diverse fields of biotechnology including biomedical engineering, molecular genetics, bioprocess engineering, and agricultural and environmental engineering. Lessons engage students in engineering design problems related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, forensics and bioethics. Students apply biological and engineering concepts to design materials and processes that directly measure, repair, improve and extend living systems.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Civil Engineering and Architecture</b>	<b>CIVIL ENG</b>	<b>1</b>	<b>L3</b>	<b>14.0801</b>
<i>Prerequisite: Principles of Engineering</i> This course is part of the nationally recognized Project Lead The Way™ curriculum. Students apply what they learn about various aspects of civil engineering and architecture to the design and development of a property. Working in teams, students explore hands-on activities and projects to learn the characteristics of civil engineering and architecture. In addition, students use 3D design software to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems and communicating their solutions to their peers and members of the professional community of civil engineering and architecture. The appropriate use of technology is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Computer Integrated Manufacturing</b>	<b>COMP INT MANUFACT</b>	<b>1</b>	<b>L3</b>	<b>14.3601</b>
<i>Prerequisite: Principles of Engineering</i> This course is part of the nationally recognized Project Lead The Way™ curriculum. Students answer the questions: How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? As students find the answers to these questions, they learn about the history of manufacturing, a sampling of manufacturing processes, robotics and automation. The course is built around several key concepts: computer modeling, Computer Numeric Control (CNC) equipment, Computer Aided Manufacturing (CAM) software, robotics and flexible manufacturing systems.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Digital Electronics</b>	<b>DIG ELECTRONICS</b>	<b>1</b>	<b>L3</b>	<b>15.0303</b>
<i>Prerequisite: Principles of Engineering</i> This course is part of the nationally recognized Project Lead The Way™ curriculum. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras and high-definition televisions. The major focus of this course is to expose students to the process of combinational and sequential logic design, teamwork, communication methods, engineering standards and technical documentation.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Engineering Design and Development</b>	<b>ENG DESIGN DEV</b>	<b>1</b>	<b>L4C</b>	<b>14.0101</b>
<p><i>Prerequisite: Civil Engineering and Architecture or Digital Electronics or Aerospace Engineering or Computer Integrated Manufacturing or Biotechnical Engineering.</i></p> <p>This course serves as the capstone course for the nationally recognized Project Lead The Way™ curriculum. This is an engineering research course in which students will work in teams to research, design, test and construct a solution to an open-ended engineering problem. The product development life cycle and a design process are used to guide and help the team to reach a solution to the problem. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. This course allows students to apply all the skills and knowledge learned in previous Project Lead The Way courses. The use of 3D design software helps students design solutions to the problem their team has chosen. This course also engages students in time management and teamwork skills, a valuable set for students in the future. Upon successful completion of this program, students will be prepared for entry into an Engineering program at the college level.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Introduction to Engineering Design</b>	<b>INTRO ENG DESG</b>	<b>1</b>	<b>L1</b>	<b>14.0101</b>
<p><i>Prerequisite: None</i></p> <p>This course is an entry-level course in the nationally recognized Project Lead The Way™ curriculum. This course introduces students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Students use 3D solid modeling design software to help them design solutions to solve proposed problems and learn how to document their work and communicate solutions to peers and members of the professional community.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Principles of Engineering</b>	<b>PRIN ENGINEERING</b>	<b>1</b>	<b>L2</b>	<b>14.0101</b>
<p><i>Prerequisite: Introduction to Engineering Design</i></p> <p>This course is a continuation of the nationally recognized Project Lead The Way™ curriculum. This survey course of engineering exposes students to major concepts they'll encounter in a postsecondary engineering course of study. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, documenting their work and communicating solutions to peers and members of the professional community.</p>				



**TRANSPORTATION, DISTRIBUTION & LOGISTICS**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Aeronautical Engineering I</b>	<b>AERONAUT ENG I</b>	<b>1</b>	<b>L2</b>	<b>14.0201</b>
<i>Prerequisite: Fundamentals of Aerospace and Aviation</i> This course introduces the student to aeronautical engineering concepts, processes, and applications. Selected engineering topics such as forces of flight, fluid dynamics, airfoils, flight controls, and lifting techniques will be introduced. The student will study the fundamentals of technical writing, data development and analysis, research techniques and comparative analysis of source documentation. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Aeronautical Engineering II</b>	<b>AERONAUT ENG II</b>	<b>1</b>	<b>L3C</b>	<b>14.0201</b>
<i>Prerequisite: Aeronautical Engineering I</i> This course is a continuation of Aeronautical Engineering I. This course provides advanced aeronautical engineering students with instruction in the evolution of flight, flight fundamentals, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated systems and related careers. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into an Aeronautical Engineering program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Aeronautical Engineering III</b>	<b>AERONAUT ENG III</b>	<b>1</b>	<b>AS</b>	<b>14.0201</b>
<i>Prerequisite: Aeronautical Engineering II</i> This course is a continuation of Aeronautical Engineering II. This course provides advanced aeronautical engineering students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Aerospace Engineering I and II. In addition, the course presents alternative applications for aerospace engineering and industry concepts. Selected aerospace engineering topics will include: flight testing, aircraft/missile airframes, propulsion systems, and sub systems. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into an Aeronautical Engineering program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Aircraft Systems and Structures</b>	<b>AIRCRAFT STRUCT</b>	<b>1</b>	<b>L2</b>	<b>49.0101</b>
<i>Prerequisite: Fundamentals of Aerospace and Aviation</i> This course is designed to give the student an in depth knowledge about the systems and structures found in today's aircraft. The student becomes familiar with aircraft structural materials, coverings, electrical systems, hydraulic systems, computer systems, environmental systems, safety equipment, control surfaces, power plants, and avionics systems. Though the knowledge gained in studying aircraft systems and structures, the student learns the fundamentals to maintain and safely operate an aircraft. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology I</b>	<b>AUTO TECH I</b>	<b>1</b>	<b>L1</b>	<b>47.0604</b>
<i>Prerequisite: None</i> This course will introduce students to the operational and scientific nature of the automotive component systems including fuel, intake, exhaust, ignition, lubrication, braking, cooling, and suspension systems. Practical application of safe work habits and the correct use of tools and precision test instruments will be emphasized throughout the course				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology II</b>	<b>AUTO TECH II</b>	<b>1</b>	<b>L2</b>	<b>47.0604</b>
<i>Prerequisite: Automotive Technology I</i> This course is a continuation of Automotive Service Technology I. This course provides intermediate automotive technology students with laboratory activities including tasks with advanced equipment to diagnose and service modern automotive systems. This course focuses on safety, engine repair, automatic transmission, manual transmission, manual drive train, drive axles, clutch systems, suspension and steering, heating and air conditioning, engine performance, braking systems, and basic electrical systems. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology II LAB</b>	<b>AUTO TECH II</b>	<b>1</b>	<b>L2L</b>	<b>47.0604</b>
<i>Prerequisite: Concurrent enrollment in Automotive Technology II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology III</b>	<b>AUTO TECH III</b>	<b>1</b>	<b>L3C</b>	<b>47.0604</b>
<i>Prerequisite: Automotive Technology II</i> This course is a continuation of Automotive Service Technology II. This course provides advanced automotive technology students with in-depth study and skill development in the repair of automotive engines, engine performance, machine operations, steering and suspension service, drive train service, and air conditioning system service. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology III LAB</b>	<b>AUTO TECH III L</b>	<b>1</b>	<b>L3L</b>	<b>47.0604</b>
<i>Prerequisite: Concurrent enrollment in Automotive Technology III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology Advanced Studies</b>	<b>AUTO TECH AS</b>	<b>1</b>	<b>AS</b>	<b>47.0604</b>
<i>Prerequisite: Automotive Technology III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology I AYES</b>	<b>AUTO AYES I</b>	<b>1</b>	<b>L1</b>	<b>47.0604</b>
<i>Prerequisite: None</i> This course will introduce students to the operational and scientific nature of the automotive component systems including fuel, intake, exhaust, ignition, lubrication, braking, cooling, and suspension systems. Practical application of safe work habits and the correct use of tools and precision test instruments will be emphasized throughout the course. Students will utilize the AYES school to career activities, curriculum, and processes. The program must be certified and follow the national program standards and requirements of AYES (Automotive Youth Education Systems).				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology II AYES</b>	<b>AUTO AYES II</b>	<b>1</b>	<b>L2</b>	<b>47.0604</b>
<p><i>Prerequisite: Automotive Technology I AYES</i></p> <p>This course is a continuation of Automotive Service Technology I AYES. This course provides intermediate automotive technology students with laboratory activities, including tasks with advanced equipment, to diagnose and service modern automotive systems. This course focuses on safety, engine repair, automatic transmission, manual transmission, manual drive train, drive axles, clutch systems, suspension and steering, heating and air conditioning, engine performance, braking systems, basic electrical systems, and employability skills. Students will utilize the AYES school to career activities, curriculum, and processes. The program must be certified and follow the national program standards and requirements of AYES (Automotive Youth Education Systems). The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology II AYES LAB</b>	<b>AUTO AYES II L</b>	<b>1</b>	<b>L2L</b>	<b>47.0604</b>
<p><i>Prerequisite: Concurrent enrollment in Automotive Technology II AYES</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology III AYES</b>	<b>AUTO AYES III</b>	<b>1</b>	<b>L3C</b>	<b>47.0604</b>
<p><i>Prerequisite: Automotive Technology II AYES</i></p> <p>This course is a continuation of Automotive Service Technology II AYES. This course provides advanced automotive technology students with in-depth study and skill development in the repair of automotive engines, engine performance, machine operations, steering and suspension service, drive train service, and air conditioning system service. Students will utilize the AYES school to career activities, curriculum, and processes. The program must be certified and follow the national program standards and requirements of AYES (Automotive Youth Education Systems). The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology III AYES LAB</b>	<b>AUTO AYES III L</b>	<b>1</b>	<b>L3L</b>	<b>47.0604</b>
<p><i>Prerequisite: Concurrent enrollment in Automotive Technology III AYES</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Automotive Technology IV AYES</b>	<b>AUTO AYES IV</b>	<b>1</b>	<b>AS</b>	<b>47.0604</b>
<p><i>Prerequisite: Automotive Technology III AYES</i></p> <p>This course is a continuation of Automotive Service Technology III AYES. This course provides advanced automotive technology students with in-depth study and skill development in the repair of automotive engines, engine performance, machine operations, steering and suspension service, drive train service, and air conditioning system service. Students will utilize the AYES school to career activities, curriculum, and processes. The program must be certified and follow the national program standards and requirements of AYES (Automotive Youth Education Systems). The appropriate use of technology and industry-standard equipment is an integral part of this course. An internship may be incorporated into the course of study to assist students in making a transition from school to work. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.</p>				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Aviation Maintenance Technician I</b>	<b>AVIATION TECH I</b>	<b>1</b>	<b>L3</b>	<b>47.0607</b>
<i>Prerequisite: Aircraft Systems and Structures</i> This course will introduce students to the operational and scientific nature of the aviation maintenance industry. This course will introduce students to safe working habits, components of a reciprocating engine, aircraft control systems, and avionics systems. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Aviation Maintenance Technician II</b>	<b>AVIATION TECH II</b>	<b>1</b>	<b>L4C</b>	<b>47.0608</b>
<i>Prerequisite: Aviation Maintenance Technician I</i> This course is a continuation of Aircraft Maintenance Technician I. This course provides advanced aircraft maintenance students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Aircraft Maintenance Technician I. Areas of study include aircraft service requirements, ground operation procedures, and calculating the cost associated with aircraft preventive maintenance. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this program, students will be prepared for entry into an Aircraft Maintenance Technician program at the college level.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Collision Repair Technology I</b>	<b>COLL REPAIR I</b>	<b>1</b>	<b>L1</b>	<b>47.0603</b>
<i>Prerequisite: None</i> This course provides entry-level auto body students with an orientation to automobile body repair and refinishing. Students will develop skills with the latest tools, equipment, and techniques. They will learn surface preparation, paint refinishing, detailing, trade information, and such skills necessary to obtain meaningful employment in the collision repair industry.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Collision Repair Technology II</b>	<b>COLL REPAIR II</b>	<b>1</b>	<b>L2</b>	<b>47.0603</b>
<i>Prerequisite: Collision Repair Technology I</i> This course is a continuation of Collision Repair Technology I. This course provides intermediate collision repair students with instruction in minor metal repair, advanced painting techniques, and the application of acrylic paints. Students will continue to develop their skills in surface preparation, paint refinishing, detailing, trade information, and such skills necessary to obtain meaningful employment in the collision repair industry. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Collision Repair Technology II LAB</b>	<b>COLL REPAIR II L</b>	<b>1</b>	<b>L2L</b>	<b>47.0603</b>
<i>Prerequisite: Concurrent enrollment in Collision Repair Technology II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Collision Repair Technology III</b>	<b>COLL REPAIR III</b>	<b>1</b>	<b>L3C</b>	<b>47.0603</b>
<i>Prerequisite: Collision Repair Technology II</i> This course is a continuation of Collision Repair Technology II. This course provides advanced collision repair students with instruction in advanced techniques and processes. The students will continue to develop all skills learned in Collision Repair Technology I and II. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Collision Repair Technology III LAB</b>	<b>COLL REPAIR III L</b>	<b>1</b>	<b>L3L</b>	<b>47.0603</b>
<i>Prerequisite: Concurrent enrollment in Collision Repair Technology III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Collision Repair Technology Advanced Studies</b>	<b>COLL REPAIR AS</b>	<b>1</b>	<b>AS</b>	<b>47.0603</b>
<i>Prerequisite: Collision Repair Technology III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Diesel Technology I</b>	<b>DIESEL TECH I</b>	<b>1</b>	<b>L1</b>	<b>47.0605</b>
<i>Prerequisite: None</i> This course provides students with fundamental diesel engine repair and service skills. It will introduce the operational and scientific nature of diesel component systems. It will provide students with a basic knowledge of diesel engine equipment and operating principles. The diesel repair, maintenance, and diagnostic procedures will enhance students' awareness of the applications of scientific principles. The students will study the technological nature of diesel-powered equipment, which will include an understanding of the following areas: measurement, atomic structure and properties, chemical reactions, and electronic principles. The proper and safe use of tools and precision test equipment will be emphasized throughout the course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Diesel Technology II</b>	<b>DIESEL TECH II</b>	<b>1</b>	<b>L2</b>	<b>47.0605</b>
<i>Prerequisite: Diesel Technology I</i> This course is a continuation of Diesel Technology I. This course is designed to provide intermediate students with diesel-powered equipment repair and service skills. It will provide students with in-depth knowledge of diesel engine operating principles and the application of diesel power to commercial trucks, buses, and off-road equipment. Practical application of safe work habits and the correct use of tools, shop equipment, and precision test instruments will be emphasized throughout the course. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Diesel Technology II LAB</b>	<b>DIESEL TECH II L</b>	<b>1</b>	<b>L2L</b>	<b>47.0605</b>
<i>Prerequisite: Concurrent enrollment in Diesel Technology II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Diesel Technology III</b>	<b>DIESEL TECH III</b>	<b>1</b>	<b>L3C</b>	<b>47.0605</b>
<i>Prerequisite: Diesel Technology II</i> This course is a continuation of Diesel Technology II. This course is designed to provide advanced students with diesel-powered equipment repair and service skills. It will provide students with in-depth knowledge of diesel engine operating principles and the application of diesel power to commercial trucks, buses, and off-road equipment. Practical application of safe work habits and the correct use of tools, shop equipment, and precision test instruments will be emphasized throughout the course. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Diesel Technology III LAB</b>	<b>DIESEL TECH III L</b>	<b>1</b>	<b>L3L</b>	<b>47.0605</b>
<i>Prerequisite: Concurrent enrollment in Diesel Technology III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Diesel Technology Advanced Studies</b>	<b>DIESEL TECH AS</b>	<b>1</b>	<b>AS</b>	<b>47.0605</b>
<i>Prerequisite: Diesel Technology III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Fundamentals of Aerospace and Aviation</b>	<b>FUND AEROSPACE</b>	<b>1</b>	<b>L1</b>	<b>49.0199</b>
<i>Prerequisite: None</i> This course will introduce students to the aerospace and aviation professions. Students will learn the history of flight, developmental trends, the principles of flight and navigation, the flight environment of an aerospace vehicle, the missions and roles of today's aerospace vehicles, the fundamentals of rocketry and space travel, and the physiology of flight.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Introduction to Power Equipment Technology</b>	<b>INTRO PWR EQUIP</b>	<b>.5</b>	<b>PL1</b>	<b>47.0606</b>
<i>Prerequisite: None</i> This half-credit course provides introductory instruction in an abbreviated schedule format to the fundamentals of power equipment technology. Students will study two-stroke and four-stroke cycle theory. Fundamental skills such as the proper use of fasteners, safety practices, precision measuring tools, and electrical test equipment will be mastered.  <b>Please note:</b> This course is not exploratory in nature; rather, it is designed to introduce concepts included in the Power Equipment Technology or Automotive Technology State Standards. Students will be prepared to enter the L1 course outlined in the course sequences for these program areas. This pre-level 1 (PL1) course is currently scheduled to be phased out after the 2013-14 school year. All school districts are encouraged to start students with the L1 course, the first full-credit course in the program area sequence.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Power Equipment Technology I</b>	<b>PWR EQUIP I</b>	<b>1</b>	<b>L1</b>	<b>47.0606</b>
<i>Prerequisite: None</i> This course introduces the student to the fundamentals of the power sports and power equipment industries. Students will study two-stroke and four-stroke cycle theory. Fundamental skills such as the proper use of fasteners, safety practices, precision measuring tools, and electrical test equipment will be mastered. Instruction will be provided in the maintenance and repair of two-stroke and four-stroke cycle engines and their component systems such as electrical, fuel, starting, and cooling units. Students will troubleshoot basic systems, install replacement parts, and perform proper repairs.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Power Equipment Technology II</b>	<b>PWR EQUIP II</b>	<b>1</b>	<b>L2</b>	<b>47.0606</b>
<i>Prerequisite: Power Equipment Technology I</i> This course is a continuation of Power Equipment Technology I. This course provides intermediate power equipment students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Power Equipment Technology I. Areas of study include seasonal maintenance, lubrication, exhaust systems, electrical systems, and braking systems. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Power Equipment Technology II LAB</b>	<b>PWR EQUIP II L</b>	<b>1</b>	<b>L2L</b>	<b>47.0606</b>
<i>Prerequisite: Concurrent enrollment in Power Equipment Technology II</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Power Equipment Technology III</b>	<b>PWR EQUIP III</b>	<b>1</b>	<b>L3C</b>	<b>47.0606</b>
<i>Prerequisite: Power Equipment Technology II</i> This course is a continuation of Power Equipment Technology II. This course provides advanced power equipment students with instruction in advanced techniques and processes. They will continue to develop all skills learned in Power Equipment Technology I and II. Areas of study include power trains, chassis, and engine repair. The appropriate use of technology and industry-standard equipment is an integral part of this course. Upon successful completion of this course, students will have acquired entry-level skills for employment in this field.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Power Equipment Technology III LAB</b>	<b>PWR EQUIP III L</b>	<b>1</b>	<b>L3L</b>	<b>47.0606</b>
<i>Prerequisite: Concurrent enrollment in Power Equipment Technology III</i> This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth lab experience that applies the processes, concepts, and principles as described in the classroom instruction. The coursework will encourage students to explore and develop advanced skills in their program area. The appropriate use of technology and industry-standard equipment is an integral part of this course.				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Power Equipment Technology Advanced Studies</b>	<b>PWR EQUIP AS</b>	<b>1</b>	<b>AS</b>	<b>47.0606</b>
<i>Prerequisite: Power Equipment Technology III</i> This course is offered to students who have achieved all content standards in a program whose desire is to pursue advanced study through investigation and in-depth research. Students are expected to work independently or in a team and consult with their supervising teacher for guidance. The supervising teacher will give directions, monitor, and evaluate the students' topic of study. Coursework may include various work-based learning experiences such as internships and job shadowing, involvement in a school-based enterprise, completion of a capstone project, and/or portfolio development. This course may be repeated for additional instruction and credit.				

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Private Pilot I</b>	<b>PILOT I</b>	<b>1</b>	<b>L3C</b>	<b>49.0102</b>
<p><i>Prerequisite: Aircraft Systems and Structures</i></p> <p>This course is a continuation of Aircraft Systems and Structures. This course provides intermediate aviation students with instruction in advanced techniques and processes. This course introduces student on the principles of flight, the aircraft flight environment, aircraft performance standards, flight controls, metrology, radio communications, flight planning, FAA regulations, navigation, the human body in flight, airman decisions making, accident prevention, Airman Information Manual, and the fundamentals of instrument flight. This course prepares the students to take the FAA Part 61.109 Private Pilot Written Exam. Upon successful completion of this program, students will be prepared for entry into an Aviation program at the college level.</p>				
COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Private Pilot II</b>	<b>PILOT II</b>	<b>1</b>	<b>AS</b>	<b>49.0102</b>
<p><i>Prerequisite: Private Pilot I</i></p> <p>This course is a continuation of Private Pilot I. This course provides advanced aviation students with instruction in advanced techniques and processes. This course is designed to prepare students to successfully meet the FAA requirements for a Private Pilot License. The course provides the classroom instruction, simulators training, and flight training for private pilot evaluation and certification in a single engine airplane in accordance with FAA FAR part 61.109 and the FAA Practical Test Standards. Upon successful completion of this program, students will have acquired entry-level skills for employment in this field or entry into an Aviation program at the college level.</p>				

**WORK EXPERIENCE:**

COURSE TITLE	ABBREVIATED NAME	CREDITS	LEVEL	CIP CODE
<b>Work Experience – Skilled and Technical Sciences</b>	<b>WORK EXPER STS</b>	<b>1</b>	<b>WK</b>	<b>99.0006</b>
<p><i>Prerequisite: None</i></p> <p>This course is designed to expand the students' opportunities for applied learning. This course provides an in-depth work experience that applies the processes, concepts, and principles as described in the classroom instruction. This course will encourage students to explore and develop advanced skills through work-based learning directly related to the program of study. Course must follow NAC 389.562, 389.564, 389.566 regulations.</p>				



**- APPENDIX A -****SEQUENCING TABLES**

The sequencing tables in this section are listed by program areas and are divided into their appropriate career clusters. Within each career cluster, programs are listed alphabetically and the recommended course sequences are listed in the order starting with the Level 1 (L1) course and continuing through the completion course.

**CTE COURSE LEVELS**

The course level determines the order in which courses shall be taught. The following table describes each level. The program area should follow the sequence in order for the student to complete all state standards and be prepared for the end-of-program technical assessment. The end-of-program technical assessment will be administered in the completion course (L2C, L3C, or L4C).

LEVEL	DESCRIPTION
<b>L1</b>	Introductory course
<b>L1L</b>	Introductory course lab* (concurrent enrollment in L1 required)
<b>L2</b>	Intermediate course
<b>L2L</b>	Intermediate course lab* (concurrent enrollment in L2 or L2C required)
<b>L2C</b>	Completion course per state standards
<b>L3</b>	Advanced course
<b>L3L</b>	Advanced course lab* (concurrent enrollment in L3 or L3C required)
<b>L3C</b>	Completion course per state standards
<b>L4C</b>	Completion course per state standards
<b>L4L</b>	Completion course lab* (concurrent enrollment in L4C required)
<b>AS</b>	Advanced Studies course** (above and beyond the state standards)
<b>WK</b>	Work Experience ***(CO-OP)

\* Lab courses to be utilized in extended schedules only.

\*\* Advanced Studies courses allow students to continue taking courses beyond the assessment (completion) level and are repeatable.

\*\*\* Must follow NAC 389.562, 389.564, and 389.566 regulations.

**RECOMMENDED COURSE SEQUENCING**

The recommended course sequencing provided in this section serves as a guide to schools for their programs of study. Complete program sequences are essential for the successful delivery of all state standards in each program area. Each program's sequence model is listed as either traditional, extended, or both. Each course is listed in the order in which it should be taught. Additionally, each course has an appropriate course level which will assist the school district with each program area assessment after the completion of each program area's state standards. (Indicated by the letter "C")

**RECOMMENDED COURSE SEQUENCING LAYOUT**

TRADITIONAL SEQUENCING		
CLASS PERIODS	CREDITS	LEVEL
1	1	L1
1	1	L2/L2C
1	1	L3/L3C
1	1	L4C/AS

Traditional Sequencing = This sequencing is one hour one credit courses typical in single period schedules. (e.g. a year long course = one credit)

EXTENDED SEQUENCING		
CLASS PERIODS	CREDITS	LEVEL
1	1	L1
1	1	L1L/L2
1	1	L2/L2L
1	1	L2L/L3/L3C
1	1	L3/L3C/L3L/L4C
1	1	L3L/L4C/L4L/AS
1	1	L4C/L4L/AS

Extended Sequencing = This sequencing is one hour one credit courses typical in a blocked period schedule. (e.g. a year long course = two credits; the lab course completes the second credit)

SEQUENCING ALLOWANCES
Schools can incorporate additional L1 and L2 courses into the program of study if all of the following are met: <ul style="list-style-type: none"> <li>• students schedule allows for additional courses</li> <li>• the course relates to the students program of study</li> <li>• the additional courses do not prevent the student in reaching the completion level course</li> <li>• the course is an approved course in the Nevada CTE Course Catalog</li> </ul>

**CTE STATE STANDARDS**

Career and Technical Education state standards are or will be developed for most programs, and will be revised and updated as needed or according to a pre-determined schedule. The CTE state standards labeled with “\*TBD\*” indicates “To Be Determined”. The CTE state standards provide teachers with the appropriate information and direction for curriculum development. Technical assessments will be implemented for those programs with current industry validated standards.

AGRICULTURE & NATURAL RESOURCES			
AGRICULTURE, FOOD & NATURAL RESOURCES			
State Skill Standards	Program Name	Recommended Courses	Schedule Model
Agriculture Business Systems	Agriculture Business Systems	Agriculture Science I Agriculture Science II Agriculture Business Agriculture Business Advanced Studies	Traditional
Agriculture Leadership, Communication and Policy	Agriculture Leadership, Communication and Policy	Agriculture Science I Agriculture Science II Agriculture Leadership, Communication and Policy Agriculture LCP Advanced Studies	Traditional
Agriculture Mechanical Engineering Technology Equipment Fabrication Systems	Agriculture Mechanical Engineering Technology Equipment Fabrication Systems	Agriculture Mechanical Engineering Technology I Agriculture Mechanical Engineering Technology II AG MET Equipment Fabrication Systems AG MET Advanced Studies	Traditional
Agriculture Mechanical Engineering Technology Power Systems	Agriculture Mechanical Engineering Technology Power Systems	Agriculture Mechanical Engineering Technology I Agriculture Mechanical Engineering Technology II AG MET Power Systems AG MET Advanced Studies	Traditional
Agriculture Mechanical Engineering Technology Structural Systems	Agriculture Mechanical Engineering Technology Structural Systems	Agriculture Mechanical Engineering Technology I Agriculture Mechanical Engineering Technology II AG MET Structural Systems AG MET Advanced Studies	Traditional
Animal Science	Animal Science	Agriculture Science I Agriculture Science II Animal Science Animal Science Advanced Studies	Traditional
Environmental Management *TBD*	Environmental Management	Environmental Management I Environmental Management II Environmental Management II LAB Environmental Management III Environmental Management III LAB Environmental Management Advanced Studies	Extended
Equine Science *TBD*	Equine Science	Agriculture Science I Agriculture Science II Equine Science Equine Science Advanced Studies	Traditional
Floriculture Design and Management *TBD*	Floriculture Design and Management	Agriculture Science I or Horticulture Science Plant Science and Ornamental Horticulture Floriculture Floriculture Advanced Studies	Traditional
Landscape Design and Management *TBD*	Landscape Design and Management	Agriculture Science I or Horticulture Science Landscaping I Landscaping II Landscaping Advanced Studies	Traditional

\*TBD\* = To Be Determined

AGRICULTURE, FOOD & NATURAL RESOURCES (CONT.)			
State Skill Standards	Program Name	Recommended Courses	Schedule Model
Natural Resources and Wildlife Management	Natural Resources and Wildlife Management	Agriculture Science I Agriculture Science II Natural Resources and Wildlife Management Natural Resources and Wildlife Management Advanced Studies	Traditional
Ornamental Horticulture/Greenhouse Mgmt *TBD*	Ornamental Horticulture/Greenhouse Mgmt	Agriculture Science I or Horticulture Science Plant Science and Ornamental Horticulture Greenhouse Management Greenhouse Management Advanced Studies	Traditional
Veterinary Science *TBD*	Veterinary Science	Agriculture Science I Agriculture Science II Veterinary Science Veterinary Science Advanced Studies	Traditional

\*TBD\* = To Be Determined

BUSINESS & MARKETING EDUCATION			
BUSINESS, MANAGEMENT & ADMINISTRATION			
State Skill Standards	Program Names	Recommended Courses	Schedule Model
Administrative Services *TBD*	Administrative Services	Business Software Applications Office Management I Office Management II Office Management Advanced Studies	Traditional
Business Management	Business Management	Principles of Business and Marketing Business Management I Business Management II Business Management Advanced Studies	Traditional
	High School of Business TM	Business Computer Apps/Business Leadership Business Development/Business Economics Principles of Marketing/Business Finance Principles of Management/Business Strategies	Extended
FINANCE			
State Skill Standards	Program Names	Recommended Courses	Schedule Model
Accounting and Finance *TBD*	Accounting and Finance	Accounting and Finance I Accounting and Finance II Accounting and Finance III Accounting and Finance Advanced Studies	Traditional
	Academy of Finance National Academy Foundation TM	Business Computer Apps * / Principles of Finance International Finance/Economics and World Finance Banking and Credit/Securities and Insurance Issues in Management/Ethics in Business Financial Planning	Extended

\*TBD\* = To Be Determined

\* Course Description listed under the BUS - Business, Management and Administration Cluster

MARKETING, SALES & SERVICE			
State Skill Standards	Program Names	Recommended Courses	Schedule Model
Entrepreneurship *TBD*	Entrepreneurship	Principles of Business and Marketing * Entrepreneurship I Entrepreneurship II Entrepreneurship Advanced Studies	Traditional
Marketing	Marketing	Principles of Business and Marketing * Marketing I Marketing II Marketing Advanced Studies	Traditional
	Sports and Entertainment Marketing	Principles of Business and Marketing * Marketing I Sports and Entertainment Marketing Marketing Advanced Studies	Traditional
	Sports and Entertainment Marketing	Sports and Entertainment Business Marketing I Marketing II Sports and Entertainment Marketing Marketing Advanced Studies	Extended
HOSPITALITY & TOURISM (LODGING / TRAVEL & TOURISM)			
State Skill Standards	Program Names	Recommended Courses	Schedule Model
Hospitality and Tourism	Hospitality and Tourism	Travel and Tourism Hospitality Management I Hospitality Management II Hospitality and Tourism Advanced Studies	Traditional
	Hospitality and Tourism	Foundations of Hospitality Travel and Tourism Hospitality Management I Hospitality Management I LAB Hospitality Management II Hospitality Management II LAB	Extended
	Hospitality and Tourism National Academy Foundation <sup>TM</sup>	Principles of Hospitality and Tourism Marketing for Hospitality and Tourism Economics for Hospitality and Tourism Entrepreneurship for Hospitality/Event Planning	Extended

\*TBD\* = To Be Determined

\* Course Description listed under the BUS - Business, Management and Administration Cluster

FAMILY & CONSUMER SCIENCES			
ARCHITECTURE & CONSTRUCTION			
State Skill Standards	Program	Recommended Courses	Schedule Model
Housing and Interior Design	Housing and Interior Design	Housing and Interior Design I Housing and Interior Design II Housing and Interior Design III Housing and Interior Design Advanced Studies	Traditional
	Housing and Interior Design	Foundations of Design * Housing and Interior Design I Housing and Interior Design II Housing and Interior Design II LAB Housing and Interior Design III Housing and Interior Design III LAB Housing and Interior Design Advanced Studies	Extended
ARTS, A/V TECHNOLOGY & COMMUNICATIONS			
State Skill Standards	Program	Recommended Courses	Schedule Model
Costume Design *TBD*	Costume Design	Costume Design I Costume Design II Costume Design III Costume Design Advanced Studies	Traditional
Fashion, Textiles and Design	Fashion, Textiles and Design	Fashion Design and Construction I Fashion Design and Construction II Fashion Design and Construction III Fashion Design and Construction Advanced Studies	Traditional
HOSPITALITY & TOURISM (FOOD & BEVERAGE)			
State Skill Standards	Program	Recommended Courses	Schedule Model
Baking and Pastry *TBD*	Baking and Pastry	Culinary Arts I Baking and Pastry I Baking and Pastry II Baking and Pastry Advanced Studies	Traditional
	Baking and Pastry	Culinary Arts I Culinary Arts I LAB Baking and Pastry I Baking and Pastry I LAB Baking and Pastry II Baking and Pastry II LAB Baking and Pastry Advanced Studies	Extended

\*TBD\* = To Be Determined

\* Course Description listed under FACS - Arts, A/V Technology and Communications Cluster

\*\* Course Description listed under FACS - Architecture and Construction Cluster

HOSPITALITY & TOURISM (FOOD & BEVERAGE) (CONT.)			
State Skill Standards	Program	Recommended Courses	Schedule Model
Culinary Arts	Culinary Arts	Culinary Arts I Culinary Arts II Culinary Arts III Culinary Arts Advanced Studies	Traditional
Culinary Arts Foods and Nutrition	Culinary Arts	Foods and Nutrition I * Culinary Arts I Culinary Arts II Culinary Arts III	Traditional
	Culinary Arts	Foods and Nutrition I * Culinary Arts I Culinary Arts I LAB Culinary Arts II Culinary Arts II LAB Culinary Arts III Culinary Arts III LAB Culinary Arts Advanced Studies	Extended
HUMAN SERVICES			
State Skill Standards	Program	Recommended Courses	Schedule Model
Child Development *TBD*	Child Development	Child Development I Child Development II	Traditional
	Child Development	Child Development I Child Development I LAB Child Development II Child Development II LAB	Extended
Early Childhood Education	Early Childhood Education	Early Childhood Education I Early Childhood Education II Early Childhood Education III Early Childhood Education Advanced Studies	Traditional
	Early Childhood Education	Early Childhood Education I Early Childhood Education I LAB Early Childhood Education II Early Childhood Education II LAB Early Childhood Education III Early Childhood Education III LAB Early Childhood Education Advanced Studies	Extended
Family and Consumer Sciences Foods and Nutrition Child Development	Personal and Family Management	Personal and Family Management I Personal and Family Management II Personal and Family Management III Personal and Family Management IV	Traditional
Foods and Nutrition	Foods and Nutrition	Foods and Nutrition I Foods and Nutrition II	Traditional

\*TBD\* = To Be Determined

\* Course Description listed under the FACS - Human Services Cluster



HUMAN SERVICES (CONT.)			
State Skill Standards	Program	Recommended Courses	Schedule Model
Human Development *TBD*	Human Development	Child Development I Family and Personal Psychology Family and Consumer Sciences II	Traditional
Family and Consumer Sciences	Family and Consumer Sciences	Family and Consumer Sciences I Family and Consumer Sciences II Family and Consumer Sciences Advanced Studies	Traditional
MARKETING, SALES & SERVICE			
State Skill Standards	Program	Recommended Courses	Schedule Model
Fashion Merchandising *TBD*	Fashion Merchandising	Fashion Merchandising I Fashion Merchandising II Fashion Merchandising Advanced Studies	Traditional
	Fashion Merchandising	Fashion Design and Construction I * Fashion Design and Construction II * Fashion Merchandising I Fashion Merchandising II Fashion Merchandising Advanced Studies	Extended

\*TBD\* = To Be Determined

\* Course Description listed under FACS - Arts, A/V Technology and Communication Cluster

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HEALTH SCIENCE & PUBLIC SAFETY			
HEALTH SCIENCE			
State Skill Standards	Program	Recommended Courses	Schedule Model
Health Sciences I and II	Biomedical	Biomedical I Biomedical II Biomedical III Biomedical Advanced Studies	Traditional
	Biomedical Project Lead the Way™ (PLTW)	Principles of Biomedical Sciences Human Body Systems Medical Interventions Biomedical Innovation	Traditional
Health Sciences I and II	Biotechnology	Health Science I Health Science II <i>or</i> Medical Anatomy <i>or</i> Human Diseases <i>or</i> Medical Terminology Biotechnology Biotechnology LAB	Both
Dental Practices *TBD*	Dental Assisting	Health Science I Health Science II Human Diseases Dental Assisting I Dental Assisting I LAB Dental Materials and Radiology Dental Assisting II Dental Assisting Advanced Studies	Extended
Health Occupations	Health Occupations	Health Occupations I Health Occupations II Health Occupations Advanced Studies	Traditional
Health Sciences I and II	Health Sciences I and II	Health Science I Health Science II Health Sciences Advanced Studies	Traditional
Health Information Management *TBD*	Health Information Management	Health Science I <i>or</i> Medical Anatomy Health Information Management I Health Information Management II	Traditional
Health Sciences I and II	Medical Assisting	Health Science I Health Science II Medical Assisting Medical Assisting LAB	Both
Nursing *TBD*	Nursing Operations	Health Science I Health Science II <i>or</i> Medical Anatomy <i>or</i> Medical Terminology Nursing Assistant	Traditional

\*TBD\* = To Be Determined

HEALTH SCIENCE (CONT.)			
State Skill Standards	Program	Recommended Courses	Schedule Model
Nursing *TBD*	Nursing Operations	Health Science I Health Science II Medical Anatomy <i>or</i> Human Diseases <i>or</i> Medical Terminology Nursing Assistant Nursing Assistant LAB	Extended
Health Sciences I and II	Pharmacology	Health Science I Medical Anatomy Pharmacy Technician	Traditional
Health Sciences I and II	Respiratory Therapy	Health Sciences I Health Sciences II Human Diseases Respiratory Therapy I Respiratory Therapy I LAB Respiratory Therapy Practices Respiratory Therapy II Respiratory Therapy II LAB	Extended
Sports Medicine *TBD*	Sports Medicine/Exercise Science	Health Science I Health Science II Sports Medicine I Sports Medicine II	Traditional
LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY			
State Skill Standards	Program	Recommended Courses	Schedule Model
Criminal Justice *TBD*	Criminal Justice	Foundations of Public Safety Criminal Justice I Criminal Justice II Criminal Justice Advanced Studies	Traditional
Public Safety: Emergency Medical Technician *TBD*	Emergency Medical Services	Health Sciences I * Foundations of Public Safety <i>or</i> Emergency Medical Services Emergency Medical Technician Emergency Medical Technician LAB	Both
Emergency Telecommunications *TBD*	Emergency Telecommunications	Foundations of Public Safety Emergency Telecommunications I Emergency Telecommunications II	Traditional
Forensics *TBD*	Forensics	Foundations of Public Safety <i>or</i> Health Science I * Forensic Science I Forensic Science II	Traditional
Public Safety: Fire Science *TBD*	Fire Science	Foundations of Public Safety Fire Science I Wildland Firefighting Entry Level Firefighting	Traditional
Public Safety: Law Enforcement *TBD*	Law Enforcement	Foundations of Public Safety Law Enforcement I Law Enforcement II	Traditional

\*TBD\* = To Be Determined

\* Course Description listed under the HS - Health Science Cluster

INFORMATION & MEDIA TECHNOLOGIES			
ARTS, A/V TECHNOLOGY & COMMUNICATIONS			
State Skill Standards	Program	Recommended Courses	Sequence Model
Animation *TBD*	Animation	Animation I Animation II Animation III Animation Advanced Studies	Traditional
	Animation	Animation I Animation II Animation II LAB Animation III Animation III LAB Animation Advanced Studies	Extended
Digital Game Development *TBD*	Digital Game Development	Digital Game Development I Digital Game Development II Digital Game Development III Digital Game Development Advanced Studies	Traditional
	Digital Game Development	Digital Game Development I Digital Game Development II Digital Game Development II LAB Digital Game Development III Digital Game Development III LAB Digital Game Development Advanced Studies	Extended
Digital Video and Broadcast Production	Digital Video and Broadcast Production	Video Production I Video Production II Video Production III Video Production Advanced Studies	Traditional
	Digital Video and Broadcast Production	Video Production I Video Production II Video Production II LAB Video Production III Video Production III LAB Video Production Advanced Studies	Extended
Graphic Design	Graphic Design	Graphic Design I Graphic Design II Graphic Design III Graphic Design Advanced Studies	Traditional
	Graphic Design	Graphic Design I Graphic Design II Graphic Design II LAB Graphic Design III Graphic Design III LAB Graphic Design Advanced Studies	Extended
Graphic Communications and Production	Graphic Communications and Production	Graphic Communications and Production I Graphic Communications and Production II Graphic Communications and Production III Graphic Communications and Production Advanced Studies	Traditional

\*TBD\* = To Be Determined

ARTS, A/V TECHNOLOGY & COMMUNICATIONS (CONT.)			
State Skill Standards	Program	Recommended Courses	Sequence Model
Photography	Photography	Photography I Photography II Photography III Photography Advanced Studies	Traditional
Radio Production *TBD*	Radio Production	Radio Production I Radio Production II Radio Production III Radio Production Advanced Studies	Traditional
	Radio Production	Radio Production I Radio Production II Radio Production II LAB Radio Production III Radio Production III LAB Radio Production Advanced Studies	Extended
INFORMATION TECHNOLOGY			
State Skill Standards	Program	Recommended Courses	Sequence Model
Computer Science *TBD*	Computer Science	Computer Science I Computer Science II Computer Science III Computer Science Advanced Studies	Traditional
	Computer Science	Computer Science I Computer Science II Computer Science II LAB Computer Science III Computer Science III LAB Computer Science Advanced Studies	Extended
Database Design *TBD*	Database Design	Database Design I Database Design II Database Design III Database Design Advanced Studies	Traditional
	Database Design	Database Design I Database Design II Database Design II LAB Database Design III Database Design III LAB Database Design Advanced Studies	Extended
Geographic Information Systems *TBD*	Geographic Information Systems	Geographic Information Systems I Geographic Information Systems II	Both

\*TBD\* = To Be Determined

INFORMATION TECHNOLOGY (CONT.)			
State Skill Standards	Program	Recommended Courses	Sequence Model
Information Technology Networking *TBD*	IT - Networking	IT Networking I IT Networking II IT Networking III IT Networking IV	Traditional
Information Technology Service and Support *TBD*	IT - Service and Support	IT Essentials I IT Essentials II IT Essentials Advanced Studies	Traditional
Web Design and Development *TBD*	Web Design and Development	Web Design and Development I Web Design and Development II Web Design and Development III Web Design and Development Advanced Studies	Traditional
	Web Design and Development	Web Design and Development I Web Design and Development II Web Design and Development II LAB Web Design and Development III Web Design and Development III LAB Web Design and Development Advanced Studies	Extended

\*TBD\* = To Be Determined

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**SKILLED & TECHNICAL SCIENCES**

**ARCHITECTURE & CONSTRUCTION**

State Skill Standards	Program	Recommended Courses	Sequence Model
Architectural Drafting and Design	Architectural Drafting and Design	Drafting and Design I Drafting and Design II Drafting and Design III Architecture Drafting and Design Advanced Studies	Traditional
	Architectural Drafting and Design	Drafting and Design I Architectural Drafting and Design I Architectural Drafting and Design I LAB Architectural Drafting and Design II Architectural Drafting and Design II LAB Architectural Drafting and Design III Architectural Drafting and Design III LAB Architectural Drafting and Design Advanced Studies	Extended
Building Maintenance *TBD*	Building Maintenance	Building Maintenance Services I Building Maintenance Services II	Traditional
Construction Management *TBD*	Construction Management	Construction Management I Construction Management II Construction Management III Construction Management Advanced Studies	Traditional
	Construction Management	Construction Management I Construction Management II Construction Management II LAB Construction Management III Construction Management III LAB Construction Management Advanced Studies	Extended
Construction Technology	Construction Technology	Construction Technology I Construction Technology II Construction Technology III Construction Technology Advanced Studies	Traditional
	Construction Technology	Construction Technology I Construction Technology I LAB Construction Technology II Construction Technology II LAB Construction Technology III Construction Technology III LAB Construction Technology Advanced Studies	Extended
Furniture and Cabinetmaking	Furniture and Cabinetmaking	Furniture and Cabinetmaking I Furniture and Cabinetmaking II Furniture and Cabinetmaking III Furniture and Cabinetmaking Advanced Studies	Traditional
Heating, Vent., Air Cond. and Refrigeration	Heating, Vent., Air Cond. and Refrigeration	Air Conditioning and Refrigeration I Air Conditioning and Refrigeration II Air Conditioning and Refrigeration II LAB Air Conditioning and Refrigeration III Air Conditioning and Refrigeration III LAB Air Conditioning and Refrigeration Advanced Studies	Extended

\*TBD\* = To Be Determined

ARCHITECTURE & CONSTRUCTION (CONT.)			
State Skill Standards	Program	Recommended Courses	Sequence Model
Home Technology Integration *TBD*	Home Technology Integration	IT Essentials I * IT Essentials II * Digital Home Technology Integration I Digital Home Technology Integration I LAB Digital Home Technology Integration II Digital Home Technology Integration II LAB	Extended
Theater Design Technology *TBD*	Theater Design Technology	Theater Design Technology I Theater Design Technology II Theater Design Technology III Theater Design Technology Advanced Studies	Traditional
HUMAN SERVICES			
State Skill Standards	Program	Recommended Courses	Sequence Model
Cosmetology *TBD*	Cosmetology	Cosmetology I Cosmetology II	Extended
MANUFACTURING			
State Skill Standards	Program	Recommended Courses	Sequence Model
Electronics *TBD*	Electronics	Electronics I Electronics II Electronics III Electronics Advanced Studies	Traditional
	Electronics	Electronics I Electronics II Electronics II LAB Electronics III Electronics III LAB Electronics Advanced Studies	Extended
Machine Tool Technology *TBD*	Machine Tool Technology	Machine Tool Technology I Machine Tool Technology I LAB Machine Tool Technology II Machine Tool Technology II LAB	Traditional
Mechanical Drafting and Design	Mechanical Drafting and Design	Drafting and Design I ** Drafting and Design II ** Drafting and Design III Mechanical Drafting and Design Advanced Studies **	Traditional
	Mechanical Drafting and Design	Drafting and Design I ** Mechanical Drafting and Design I Mechanical Drafting and Design I LAB Mechanical Drafting and Design II Mechanical Drafting and Design II LAB Mechanical Drafting and Design III Mechanical Drafting and Design III LAB Mechanical Drafting and Design Advanced Studies	Extended

\*TBD\* = To Be Determined

\* Course Description listed under the IMT - Information Technology Cluster

\*\* Course Description listed under the STS - Architecture and Construction Cluster

MANUFACTURING (CONT.)			
State Skill Standards	Program	Recommended Courses	Sequence Model
Mechanical Technology *TBD*	Mechanical Technology	Mechanical Technology I Mechanical Technology II Mechanical Technology II LAB Mechanical Technology III Mechanical Technology III LAB Mechanical Technology Advanced Studies	Extended
Metalworking	Metalworking	Metalworking I Metalworking II Metalworking III Metalworking Advanced Studies	Traditional
Renewable Energy Technology *TBD*	Renewable Energy Technology	Renewable Energy Technology I Renewable Energy Technology II Renewable Energy Technology III Renewable Energy Technology Advanced Studies	Traditional
Welding Technology	Welding Technology	Welding Technology I Welding Technology II Welding Technology III Welding Technology Advanced Studies	Traditional
		Welding Technology I Welding Technology II Welding Technology II LAB Welding Technology III Welding Technology III LAB Welding Technology Advanced Studies	Extended
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS			
State Skill Standards	Program	Recommended Courses	Sequence Model
Engineering *TBD*	Pathway to Engineering Project Lead the Way ™ (PLTW)	Introduction to Engineering Design Principles of Engineering Civil Engineering and Architecture <i>or</i> Digital Electronics <i>or</i> Aerospace Engineering <i>or</i> Computer Integrated Manufacturing <i>or</i> Biotechnical Engineering Engineering Design and Development	Traditional

\*TBD\* = To Be Determined

TRANSPORTATION, DISTRIBUTION & LOGISTICS (CONT.)			
State Skill Standards	Program	Recommended Courses	Sequence Model
Automotive Technology	Automotive Technology	Automotive Technology I Automotive Technology II Automotive Technology III Automotive Technology Advanced Studies	Traditional
	Automotive Technology	Automotive Technology I Automotive Technology II Automotive Technology II LAB Automotive Technology III Automotive Technology III LAB Automotive Technology Advanced Studies	Extended
	Automotive Technology AYES	Automotive Technology I AYES Automotive Technology II AYES Automotive Technology II AYES LAB Automotive Technology III AYES Automotive Technology III AYES LAB Automotive Technology IV AYES	Extended
Aviation Technology *TBD*	Aerospace Engineering	Fundamentals of Aerospace and Aviation Aeronautical Engineering I Aeronautical Engineering II Aeronautical Engineering III	Traditional
	Aviation Technology	Fundamentals of Aerospace and Aviation Aircraft Systems and Structures Pilot I Pilot II	Traditional
	Aircraft Equipment Technology	Fundamentals of Aerospace and Aviation Aircraft Systems and Structures Aviation Maintenance Technician I Aviation Maintenance Technician II	Traditional
Collision Repair Technology	Collision Repair Technology	Collision Repair Technology I Collision Repair Technology II Collision Repair Technology III Collision Repair Technology Advanced Studies	Traditional
	Collision Repair Technology	Collision Repair Technology I Collision Repair Technology II Collision Repair Technology II LAB Collision Repair Technology III Collision Repair Technology III LAB Collision Repair Technology Advanced Studies	Extended
Diesel Equipment Technology *TBD*	Diesel Equipment Technology	Diesel Technology I Diesel Technology II Diesel Technology II LAB Diesel Technology III Diesel Technology III LAB Diesel Technology Advanced Studies	Extended
Power Equipment Technology *TBD*	Power Equipment Technology	Power Equipment Technology I Power Equipment Technology II Power Equipment Technology II LAB Power Equipment Technology III Power Equipment Technology III LAB Power Equipment Technology Advanced Studies	Extended

\*TBD\* = To Be Determined